



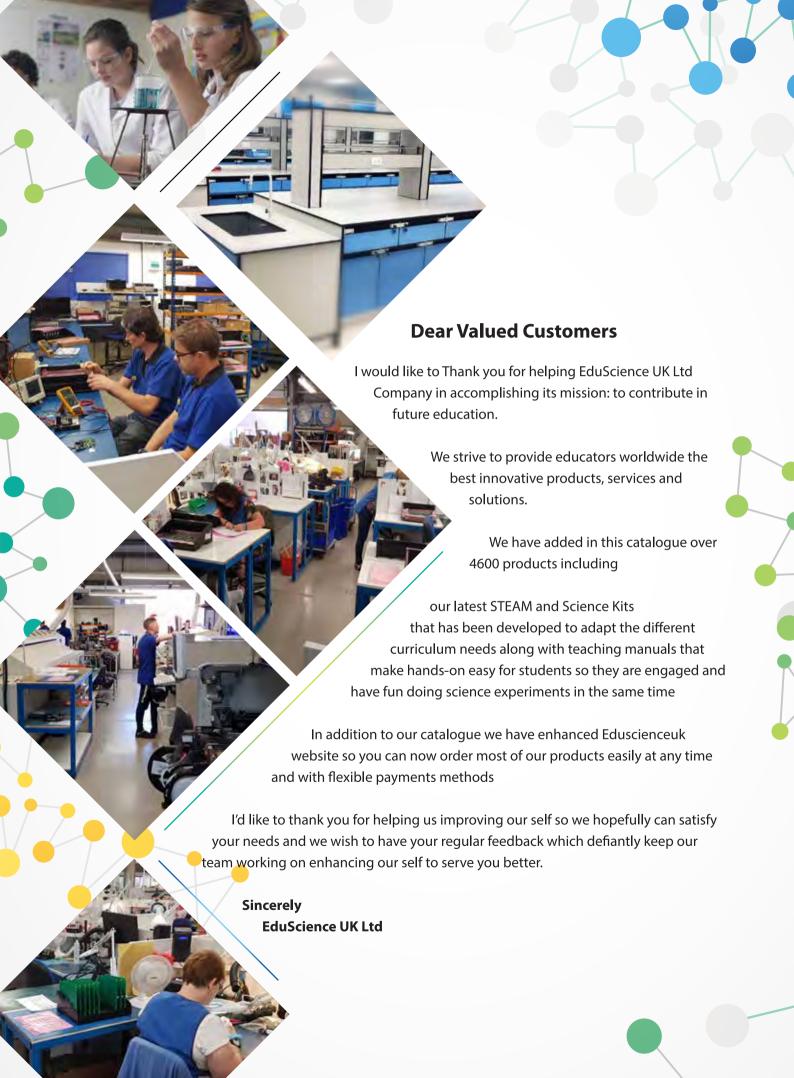






CHEMISTRY & LABWARECATALOGUE

www.eduscience.co.uk www.eduscienceuk.com





"COMPLETE SOLUTIONS OF EDUCATIONAL SUPPLIES"

EduScience is a UK based science equipment's Manufacturer, partnered with Reputed Science Education Factories one of the oldest established companies in the field of science education. It was foremost in the development of the Nuffield Science Project acting as consultants to British Government to revolutionize science teaching across the world.

EduScience provide the highest quality and support service possible to meet today's demands from science education.

- Design, bringing new equipment to school's laboratories
- · Manufacture, state of the art manufacturing
- Quality and Safety, all products meet or exceed all EU and international regulations on safety, quality and performance
- Curriculum Relevant, focused on products precisely matched to your curriculum requirements
- Technical Support, through advice, teacher and technician training and field support in your school.

More than a supplier of Science Education Supplies

Technical Expertise

Our team consists of specialists in Physics, Chemist and Biology as well as ICT and Math As a designer and manufacturer, we understand the equipment you have in your lab. We can provide advice and experimental notes, spare parts, repair and calibration.

Specialist in the Field

Everything one needs for teaching science including laboratory design and furniture.

Confidence Builder

Our teaching notes help with lesson planning and our support team is on hand to build teacher confidence and remove the feeling of isolation for specialist and non-specialist teachers.

Apparatus matched precisely to your Curriculum

Spend your budget wisely, buy purchasing relevant equipment. We match apparatus to your practical lesson requirements exactly to your curriculum needs.

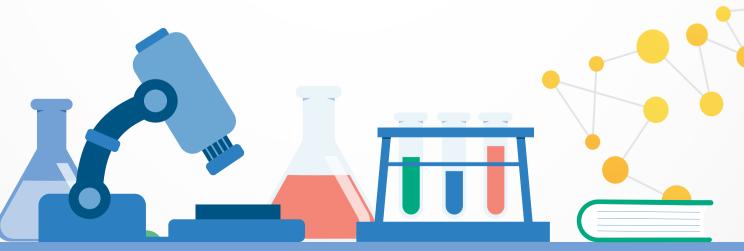
International Regulations

Our rigorous Quality Assurance policy means that all of our products usually exceed those in place throughout the world.

Product Development

A progressive development programmer ensures that science teaching keeps in step with progress to provide your students with the experience of higher education, industry or research.

EduScience with Its heritage has always been about progressive design and development since the 1960s. and continues today offering curriculum development to Governments around the world and produces bespoke equipment to meet their specific needs. You can tap into this vast experience and knowledge.





From Analogue Meter to Zoological specimens, a true comprehensive provider of everything you could need for your lab whether an established or brand new facility.

STEAM

- Science, specialist in integrating science into Technology, Engineering and Math
- Technology, from design through to robotics, data logging and cross curricula links
- Engineering, the latest technology from 3D printing to workshop resources
- Math, designed by educationalist and maths experts with software and practical lessons

STEAM KITS

For teachers with busy schedules EduScience STEM kits help lesson planning and preparation leaving you more time to inspire your students with exciting resources.





ROBOTICS

The buzz word around the world today, is Robotics, even if students are not destined to work in the field a knowledge of robotics is essential for an understanding of industry and even domestic applications

EduScience robotic kits help students to develop problem solving ability and logical thinking skills while learning about robotics and science principles.

SCIENCE DATA LOGGING AND SENSORS

Our innovative new data logging system using Data logger and direct USB sensors and our specialized software for data capture and analysis making science much more easy and joyful.





PRACTICAL PHYSICS

Take the fear out of leading practical physics lessons. Using EduScience Kits or teaching systems provides easy to prepare practical lessons in your lab which inspire the students and enhance their learning experience.

EduScience Kits or teaching systems cover every area in physics

Electricity, Electrostatics, Optics, Energy, Alternative Energy, Atomic and Nuclear, Forces etc.



CHEMISTRY LAB RESOURCES

EduScience offer complete range of chemistry lab equipment's including glassware,
Chemicals and disposables we keep many of those products in our store to cater the immediate needs.

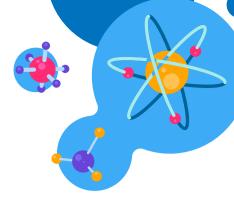




BIOLOGY LAB RESOURCES

EduScience have produced a complete comprehensive range of resources for practical work for biology students from elementary to high school to first year teaching labs in universities.

As experts in the field of microscopy we can offer training for teachers and technicians in the application for microscopes and maintenance



ENVIRONMENTAL AND FORENSIC SCIENCE.

Environmental science along with the study of forensics grips the imagination and curiosity of studer across all age ranges.

EduScience Kits and models support student's learning of principles, concepts and methodology. of these skills are transferable within current curricula. Our Kits, excite and inspire as well as supporti teachers in lesson planning and reducing technical time in preparation and lesson management.





EDUCATIONAL AND LABORATORY FURNITURE

EduScience produce complete range of laboratory and class room furniture's in standard and custom made, we promise to provide you comprehensive furnishing solutions that convert your school into a place where everyone feels comfortable. It's also our challenge to remain committed to setting new standards in quality, design, and service.

PRIMARY EDUCATION SCIENCE AND MATH

EduScience aim is to support teachers by providing unique, high-quality educational tools that enhance instruction and provide engaging learning experiences that meet children's individual needs. EduScience versatile products include play and learning activity sets, manipulatives and games that build foundational skills in all subject areas through exploration, imagination and fun.





SMART MATERIAL AND FUN SCIENCE

EduScience have been working with teachers and educational specialists to deliver playful learning experiences that bring subjects to life in the classroom and make learning fun and impactful. We have a wide range of physical and digital educational resources that encourage students to think creatively, reason systematically and release their potential to shape their own future.







Contact & Technical Support

Our Team is here to Help!

If you have questions about orders, products, services, or would like to place an order by phone, or email, Customer Service is ready to assist you.

- Phone: +44 (0)203 8685740 (8am to 5pm, ET, Monday-Friday)
- Email: Services@eduscienceuk.com

Quotes and Contracts

Forward your quotation requests to the attention of our Quotations Department via mail, or email. You can speed up the quote process by emailing your inquiry list to our Quotations Department. Or through our contact form in the website or mail, please include a contact name, your complete address, and your fax and telephone numbers, products name, required qty and our product number

- Phone: +44 (0)203 8685740
- Email: sales@eduscienceuk.com

Quotations Department

EduScience uk Ltd Company 27, Kestrel Park, Springwood Industrial Estate, Braintree, Essex, United Kingdom



International Sales

For customers outside the United Kingdom, forward your quotation requests to the attention of our International Quotations Department via mail, fax, or email. or through our contact form in the website, please include a contact name, your complete address, and your fax and telephone numbers, products name, required qty and our product number

For more detailed information about International ordering, please read the following international ordering information

- Phone: +44 (0)203 8685740
- Email: intsales@eduscienceuk.com
- Mail: 25 North Row, London, Greater London, W1K 6DJ, United Kingdom



International Quotations Department

EduScience uk Ltd Company 27, Kestrel Park, Springwood Industrial Estate, Braintree, Essex, United Kingdom



Emergencies

In the event of a serious spill, contamination, ingestion, or other emergency situations,

Please call +44 7796 264499 (8.30am to 5pm, ET, Monday-Friday).

International Ordering

EduScience Serves the World!

For over 60 years, EduScience UK Itd Company has served the needs of educators and distributors in more than 70 countries worldwide. This level of experience and world-class support means that EduScience understands your unique needs.

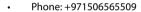
Request a Quotation Quickly and Easily

- 1. Please send us your inquiry by email to Salesint@eduscinceuk.com
- 2. Make sure to put your complete contact information
- 3. Please indicate your inquired products qty and unit
- 4. Please indicate your bid closing date
- . Please allow up to 2 business days for us to review your request and get in touch with you. You may also provide inquiry details to us via contact us form in our online. Platform

Our International Sales Team is ready to help you

Middle East and Africa

Mustafa Zidan MENA Sales Manager



- Email: mz@eduscienceuk.com
- Phone: +9714 2509955
- P.O. Box 124684, Dubai, UAE



Europe, South Africa, Asia and Pacific

Anthony Edwards, International Sales Director

- Phone: +44 7709 410989
- Email: anthony@eduscienceuk.com

Rachael, EUAP Sales Specialist

- Email: samantha@eduscienceuk.com
- Phone: +44 791 9539660
 Braintree, Essex-United kingdom

Does EduScience Have a Distributor in Your Country?

1. If you would like to be referred to a EduScience distributor in your country, or if you are interested in becoming a distributor for EduScience, please send an email to Salesint@eduscinceuk.com

Special Considerations about Placing International Orders

Please be aware that on all international quotations, shipping charges and product specific fees may apply. Because of the complexity of international orders, EduScience's experienced International Sales team can assist you with the quote and order process, and can advise you on products that require special requirements prior to being exported:

- UK Fish & Wildlife
- Hazardous materials
- Agricultural products
- Voltage requirements

Note: Custom's related "taxes and duties" are your responsibility and are not paid for by EduScience UK Itd Company.







Payment Options

Purchase Orders & Net 30 Accounts

If your school or organization in the UK has Net 30 payment terms with EduScience, you will be able to enter a Purchase Order during Checkout. If you are not sure if you have an account, please Contact us accounts@eduscienceuk.com (8am - 5pm, ET, Mon-Fri). If you are a new customer and wish to apply for credit, please call our accounts and fill our Credit Application form.

Credit Card Payments

All online customers may purchase securely with a credit or purchasing card during Checkout. When you place an order, EduScience UK Itd Company authorizes your credit card to make sure sufficient credit is available. A hold is placed on funds equal to your order total until the order is shipped. When you shop at EduScience.com, you can rest assured that you or your institution's credit/purchasing card and personal information is completely safe and secure. We currently take the following credit cards on our website:

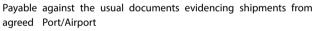
- Master Card
- Visa

nternational Letter of credit Payments

When goods value aboe 10,000 USD then payments of goods can be made by letter of credit we would like to ask that particular attention to be given to the following when instructing your bankers. Adherence to this point will avoid delays or inconvenience and the expenses of

The credit must be: In favor of Edu Science uk Irrevocable and Confirmed Payable at 100% at sight For the full value of the order Claused to allow partial shipments Claused to all transshipment

amending letters of credit



Allowing 21 days from shipments date for personation of documents

Prepayments

To prepay send Telex transfer or money order with your purchase order, call us for exact shipping charges in advance or add your courier account number.

All payment to be in USD to Edu Science UK bank account.

Shipping Information

Shipping Methods for Online Orders

We offer three convenient shipping methods for online orders. Please note that many products can only ship using limited shipping methods, such as living/perishable items, which can only ship Second Day or Overnight. Please see details lower on this page.

Standard delivery—Orders arrive in 15-20 business days.

Shipping Rates and Fees

Shipping rates and handling fees are based on the type of purchasing you are doing. See Shipping Information for Special Item Types for details.

All Customers - our sales specialist will calculate your freight and handling charges based on the weight of the items in your order and the

distance to your shipping destination.

Schools, Institutions, and Organizations - for qualified customers, our website will calculate your freight & handling charges based on the weight of the items in your order, the destination/distance, and your freight terms and discounts.

During Checkout, you will see a Freight & Handling total for your entire order. You must be logged in and your User Profile must be associated to your school in order to get the appropriate freight terms and applicable discounts.

Shipping Information for Special Item Types

Hazardous Materials

The shipment of many hazardous items is regulated by the UK Department of Transportation. Items subject to regulation are identified by one of three hazardous material icons on our website. Hazardous materials shipments incur an additional transportation fee which is charged by the carrier.

Orders for hazardous materials (and kits and sets containing these items) can only be accepted from schools, research institutions, medical facilities, and businesses. Hazardous materials cannot be shipped to individuals, homeschoolers, and other customers, but there is often a safe item that can be substituted.

Drop-Shipped Items

Some of our items are drop-shipped directly from the manufacturer. Drop-shipped items vary in their shipping timeframes and this information is available on the item's detail page—such as "This item ships from the manufacturer and will arrive in 4-6 weeks". These items are also separated from in-stock products on the Shipping Methods step of Checkout.

Backordered Items

When an item is not in stock, but we have more on the way, you can backorder the item. Backorder information along with the expected availability date is provided at the order confirmation stage

The EduScience Pledge: 100% Satisfaction Guaranteed

All of our products are unconditionally guaranteed. If for any reason you are not satisfied with any item, you may return it for a replacement, a refund, or credit. It's that simple.

Return an Item

- Contact Customer Service at + 44 1376340506 or info@eduscienceuk.com (8 am to 5 pm, ET,Monday–Friday).
- Have your purchase order number and EduScience Performa invoice/confirmed order number available.

A Customer Service Representative will give you a Return Authorization Number and any additional instructions. The number allows us to quickly credit your account or credit card once the item has been returned and processed.

Items not in Resalable Condition

Items not in resalable condition cannot be returned unless damaged or defective. Items held more than 1 month and returned in resalable condition are subject to Preapproval and a 25% restocking fee.

Drop-Shipped Items

For drop-shipped items (such as furniture or equipment), a 25% restocking fee will apply if you return the product for any reason other than shipping damage or manufacturing defect. You are responsible for shipping the product back to the manufacturer in resalable condition and in the original packing









SERVICES

TEACHER AND TECHNICIAN TRAINING

We provide comprehensive teacher training program and lab technicians with hands on experiments

CURRICULUM DEVELOPMENTS

We work with Ministries of education worldwide to identify the best bespoke scenario for developing science, mathematics and technology education curriculum for their country, to support national aims and objectives. And introduce STEM concepts that complement the current curriculum

MICROSCOPE SERVICING

Our experienced engineers are able to service your microscopes.

BALANCE SERVICING

Our experienced engineers will service your balances and ensure that they are accurately calibrated.

PROJECTS HANDLING

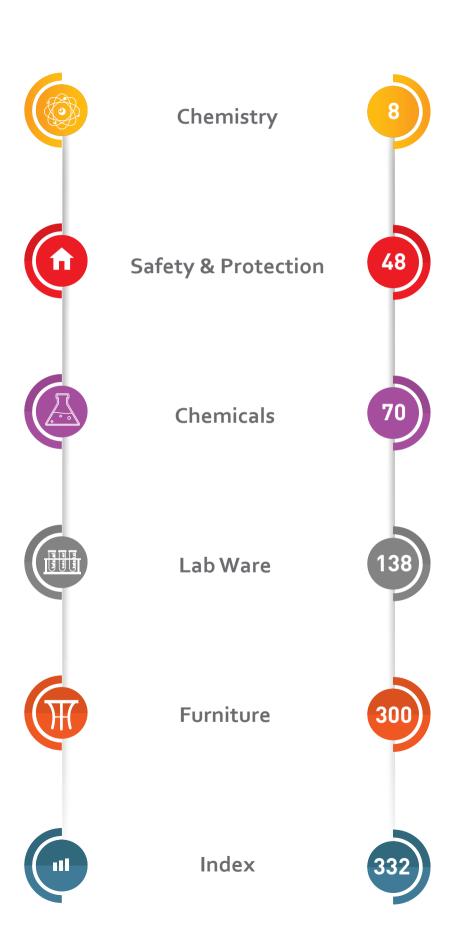
We have a wealth of expertise identifying your needs and according to your curriculum requirements, packing, delivering with our own transport, and helping you unpack and check off your new laboratory equipment.

HAZARDOUS CHEMICAL WASTE DISPOSAL

We employ a specialist team of chemists to pack and label hazardous chemicals ready for removal. Our trained ADR drivers will then transport to a registered waste station, and we provide full documentation for your peace of mind.

CLASSROOM AND LABORATORY REFIT

We use a professional furniture manufacturing company to assess your needs and design a tailored solution, using your chosen materials, including modern and innovative designs













We Contribute To Future Education



CMES Data Logger

is a modern advanced graphic data-logger. It is a handhold Linux device equipped with two processors and 8 GB memory. Works standalone and with Windows and MAC computers.

Display: 5" high-resolution capacitive colour touch screen

Resolution: 12-bit

Maximum sampling rate: 1 MHz

Sensor inputs: Four analogue BT inputs, two digital BT inputs

Built-in: Sound sensor, 3-axis Accelerometer (2g, 4g, 8g)

Wireless connectivity: Wi-Fi and Blue-tooth® Computer connection: USB mini port USB port: Full USB for USB peripherals

Power: Rechargeable battery, charging via USB from computer or via

power adapter

Software on board: Coach Linux

Software on computer: Coach (Windows and MAC) Includes: Power adapter, USB cable and User's Guide.

The dedicated desktop applications, installed on CMES, offer tools for collecting data, managing user files, setting up the device and its wireless connection, browsing the web, watching video files, playing audio files, etc. All applications can be easily updated via the CMES Update server available via a Wi-Fi connection.

The powerful Coach Application, installed on CMES, offers live sensor data displays, real-time graphing, tools for data processing and possibilities to create new or open ready-to-go student activities, enriched with texts, images and web-pages. Coach 7 and Coach 7 Lite support measurements with CMES.

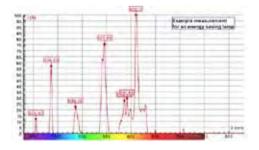
During such measurement CMES is connected to the computer via a USB port or communicates via a Wi-Fi connection, and is controlled by Coach running on the computer. The collected data are transferred in real-time to the computer and the measurement

can be followed directly on the computer screen. By using wireless connectivity and the VNC protocol the CMES screen can be remotely viewed and controlled from any computer or mobile device connected to the same network.





ESD50000



Coach 7 Desktop

Our Coach software is the most versatile and complete software for STEM Education. Coach integrates ICT tools, which resemble technologies used by professional scientists

and facilitate an inquiry-based approach to education. By collecting high-quality, real-time data, constructing and using models, using simulations and visualizations, comparing results from experiments and models, students can be actively involved in authentic learning activities.

Coach 7 is the successor of Coach 6 and offers new features and enhancements of our unique and powerful environment.

5-years Single User License

ESD50013



Colorimeter Sensor

The Colorimeter BT29i measures the amount of light transmitted through a sample solution. It has four LED light sources emitting light of different wavelengths:

Tel: +44 (0)203 8685740

Violet 430 nm, blue 470 nm, green 565 nm and red 635 nm.

Range: 90 .. 10 %T Resolution (12-bit): 0.025 %T Includes: 10 plastic cuvette with caps. Can be used to:

- Investigate application of Beer's law e.g.-crystal violet or Copper Sulphate,
- · Determine unknown concentrations,
- · Measure reaction rate, reaction
- Order or reaction equilibrium,
- Determine biological molecules e.g. sugars, protein, vitamins..





Conductivity Sensor

The Conductivity sensor BT27i measures the ability of a solution to conduct an electric current between two electrodes. The Conductivity sensor consists of a conductivity electrode and an amplifier. The sensor has three measurement ranges, which can be selected using a switch. Ranges: 0 .. 200 μ S, 0 .. 2000 μ S, 0 .. 20000 μ S Resolution (12-bit): 0.082 μ S, 0.82 μ S, 8.2 μ S Can be used to:

- · Monitor the rate of reaction in chemical reactions,
- · Monitor changes in conductivity in aquatic systems,
- · Perform conductivity titration,
- Find the rate at which ionic species diffuse through membranes..

ESD50079



Light Sensor *

The Light sensor 0142i measures light intensities in the range between 0 and 200 lux. It consists of a photo-transistor, which receives light through a glass fibre. Because of its range the sensor is suitable for measurements in normal indoor situations. The sensor can also be used as a light gate. Range: 0 .. 200 lux Resolution (12-bit): 0.05 lux

Can be used to:

- Verify inverse square law,
- · Monitor changes in light caused by a chemical reaction,
- · Investigate light reflection and absorption,
- Investigate light interference patterns..

ESD50080



Light Sensor *

The low-cost Light sensor 0513 measures light intensity and is sensitive to the visible light spectrum and also infrared. Because

of its range the sensor is suitable for measurements in normal indoor situations. Range: 0.1 .. 10 W/ m2

Can be used to:

- · Verify inverse square law,
- · Monitor change in light caused by a chemical reaction,
- · Measure the rapid changes of the light intensity.

ESD50081



Light Sensor with three ranges

The Light sensor BT50i measures light intensity and has three measurement ranges, which can be selected using a switch. Because of its ranges the sensor is suitable as well for indoor as for outdoor measurements. Full sun illumination is within the range of the sensor. The spectral response of the sensor approximates the response of the human eye.

Ranges: 0 .. 1500 lux, 0 .. 15000 lux, and 0 .. 150000 lux

Resolution (12-bit): 0.37 lux, 3.7 lux, 37 lux

Can be used to:

- Verify inverse square law,
- · Investigate light reflection and absorption,
- · Study solar energy,
- · Monitor monitoring sunrise and sunset times.

ESD50082



ORP Sensor

The ORP sensor BT57i measures the ability of a solution to act as an oxidizing or reducing agent. The sensor consists of an ORP electrode and an amplifier.

Range: -450 mV .. 1100 mV

Resolution (12-bit): 0.5 mV

ORB electrode: sealed, gel-filled, epoxy body,

Ag/AgCl reference

Temperature range: 0 - 600C

Can be used to:

- · Measure the oxidizing ability of chlorine in swimming pools,
- Investigate red-ox titration to determine the equivalence point in an oxidation reduction reactions.

NOTE: all * Marked sensors need a sensor cable (IEEE1394-BT)ESP50250, which has to be purchased separate.





Thermocouple *

The Thermocouple sensor 0135i measures temperatures in two ranges, which can be selected using the switch. The sensor uses a thermocouple type K, which consists of Chromega and Alomega wires that are welded together to form a measuring junction.

Range: -200.. 1300 °C, -20 .. 110 °C Resolution (12-bit): 0.39 °C, 0.035 °C

Can be used to:

- Measure the temperature inside a Bunsen burner flame or candles,
- Determine the melting point of copper, bismuth, or other solids,
- Measure temperature in specific heat experiments.

ESD50039



This Temperature sensor BT01 is a low-cost, general-purpose temperature sensor that can be used to measure temperature in the range of -40°C to 140°C, in liquids (water, mild acidic solutions) and air. The sensing element of the sensor is an NTC thermistor, which is positioned in a stainless steel tube. The thermistor is a variable resistor whose resistance decreases non-linearly with increasing temperature.

Range: -20 °C .. 140 °C

Accuracy: 2°C at -40°C, 0.6 at 30°C, 1.8°C at 140°C

Can be used to:

- · Monitor indoor and outdoor temperatures,
- · Monitor freezing and boiling water,
- Investigate the temperature during endothermic and exothermic reactions,
- Investigate evaporation

ESD50036

Temperature Sensor

The Temperature sensor BT84i measures temperature and temperature differences in the range between -18 °C to 110 °C. This sensor uses the solid-state temperature transducer, whose output is linearly proportional to the temperature. The transducer is positioned in the point of a stainless steel tube. In liquids the response of the temperature sensor is quite fast (in between 1.3 and 2.0 s).

Range: -20 °C to 110 °C

Resolution (12-bit): 0.07 °C

Can be used to:

- Monitor indoor and outdoor temperatures,
- · Monitor freezing and boiling water,
- Investigate the temperature during endothermic and exothermic reactions,
- · Investigate evaporation.

ESD50086



Salinity Sensor

The Salinity sensor BT78i measures the salinity of a solution, which indicates the amount of all the salts dissolved in water. The sensor consists of a Salinity electrode and an amplifier.

Range: 0 .. 50 ppt

Resolution (12-bit): 0.02 ppt

Can be used to:

- · Measure of salinity of water sources,
- Measure the change in salinity of salt-water as the water evaporates,
- Monitor the rate of reaction in a chemical reaction.

ESD50089



Turbidity sensor

The Turbidity sensor BT88i measures the turbidity of water samples in the range between 0 ... 200 NTU. Range: 0 .. 200 NTU

Resolution (12-bit): 0.2 NTU

Includes: one empty cuvette and one cuvette containing 100 NTU Stabl Cal Formalin Standard, which is used to calibrate the sensor.

Can be used to:

- Measure turbidity of a water sample from various locations,
- Determine the rate of settling of a sample,
- Measure the formation of a precipitate.

ESD50090

NOTE: all * Marked sensors need a sensor cable (IEEE1394-BT)ESP50250, which has to be purchased separate.





PH sensor

The pH sensor BT61i is a general-purpose pH measurement system that allows measuring the degree of acidity/pH value. The sensor consists of a pH amplifier and pH electrode. The pH Electrode is not delivered with the pH sensor and has to be purchased separately (Order Code 031).

Range: 0.. 14 pH

Resolution (12-bit): 0.005 pH

Can be used to:

- Measure pH values of different acids and bases,
- · Monitor pH in acid-base titration experiments,
- · Monitor pH during chemical reactions,
- Investigate of water quality in streams and lakes.

ESD50038



Pressure Sensor

The Pressure sensor BT66i is designed to measure absolute gas pressure. The pressure is measured via a pressure valve, which is located on the side of the box. The sensor has two measurement ranges, which can be selected using a switch.

Range: 0 .. 700 k Pa, 0 .. 130 k Pa

Resolution (12-bit): 0.2 k Pa, 0.04 k Pa Includes: a plastic 20-ml syringe with Lu-er lock, two plastic tubes (5 cm and 45 cm long), a three-way valve with Lu er-lock connectors, two Lu er-lock connectors.

Can be used to:

- Measure pressure changes in gas-law experiments, Boyle's and Gay-Lussac's laws,
- · Measure vapour pressure of liquids,
- Measure air pressure for weather studies.

ESD50088



Photo-gate

The Photo-gate BT63i is a traditional photo-gate, which consists of a light gate allowing detecting objects passing between the photo-gate arms. In this light gate, a narrow infrared beam is directed to a fast infrared detector, which produces very accurate signals for timing. The external (laser) gate mode allows detecting objects passing outside the photo gate arms. Includes: a pulley attachment and a steel support rod.

The EduScience Drop counter can be attached to the photo gate for titration experiments (not supplied has to be purchased separately Order Code 0662drop). Up to five photo gates can be chained in a daisy-chain configuration and connected to a single interface input (IEEE1394 cable not supplied, this cable has to be ordered separately Order Code 07662).

Can be used to:

- Count events.
- Measure the speed of a moving (rolling) object (with the pulley attachment),
- Measure volume in titration experiments (with the drop counter attachment),
- · Study pendulum periods,
- Measure the acceleration due to gravity (e.g. by using a picket fence).

ESD50091



Drop Counter Attachment for photo-gate

Drop Counter can be attached to photo-gates 0662i, BT63i and ML54f and can be used to record volume (counting drops) in titration experiments. Includes: a drop dispenser, two valves and a tip.

ESD50092



Angle Sensor *

The Angle sensor 013i is a potentiometer, which has a pulley to attach a string to. The sensor is suitable for detecting angle changes and (small) displacements.

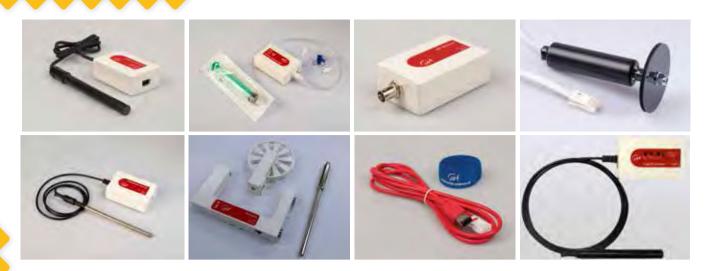
Range: 270° (turn), 140 mm (displacement) Resolution (12-bit): 0.07°, 0.03 mm Can be used to:

- Study a pendulum period,
- · Measure small displacements,
- Investigate harmonic motion.

ESD50077

NOTE: all * Marked sensors need a sensor cable (IEEE1394-BT)ESP50250, which has to be purchased separate.





Basic Chemistry Sensors Bundle Kit

- Angle (position) Sensor 013i
- Conductivity Sensor BT27i
- Light Sensor BT50i
- pH Sensor BT61i and Electrode 031
- Photo-gate BT63i with Drop Counter 0662drop or Step-motor Burette 061 (suitable only for CoachLab II+)
- Pressure Sensor BT66i
- Salinity Sensor BT78i
- 2 x Temperature Sensor BT01
- 4 Sensor Cables BTsc_4

ESD50093







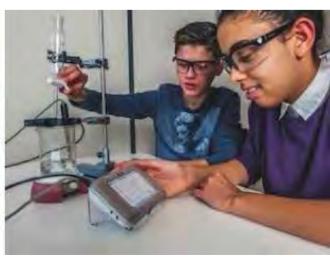


Chemistry Sensors Extension Bundle Kit

- Colorimeter BT29i
- ORP sensor BT57i
- Thermocouple 0135i
- Turbidity sensor BT88i

ESD50094





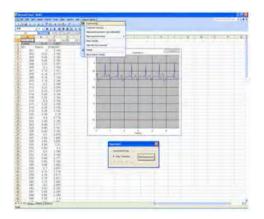


14

Xllogger system introduction

Xllogger is an innovative new data logging system using direct USB sensors & Excel* for data capture and analysis. Our sensors plug straight into USB ports on any Windows computer. No dedicated software program just Microsoft Excel*

Data is logged directly into Excel* and graphed automatically Simple toolbar commands control everything Completely intuitive - start logging straight away Students work in the familiar Excel* environment All the power of Excel* for analysing data is immediately available All the standard sensors with new ones being developed Simply plug them in and start logging (no calibration needed) Robust construction and encapsulated leads



ES Data-logging Software

Xllogger software is a specially designed Add-In to Excel* that recognises the sensors you have plugged in, understands the data being transmitted and allows you to manage the data entering the computer. Once it has been captured the data is 'standard' Excel* data and can be analysed as required.

For full computer software and hardware requirements please visit www.xllogger.com Please'add' this item to your basket and once you checkout and we receive the order you will be emailed a copy of the software.

N.B. Purchase of new or existing Xllogger products is required. £80.00 Free with XL Logger Sensors.

ESD50014



USB Light Sensor

USB Light Sensor , Measuring Range: 0 - 15,000 Lux

ESD50186





USB Oxygen Sensor

Xllogger Oxygen Sensor. Range: 0 - 100% Oxygen

ESD50184



USB Turbidity Sensor

Xllogger Turbidity Sensor. Range: 0-200 NTU

Accuracy: ±2NTU under 25NTU, ±5% over 25NTU





USB Barometer Sensor

Xllogger Barometer. Range: 0 to +2068 hPa (Mbar) Resolution: 0.6 hPa



USB Temperature Sensor

USB Temperature Sensor

ESD50185





PH electrode

The pH electrode 031 is a gel-filled Ag-AgCl combination-electrode in a plastic tube. It has a coax cable, with a BNC connector. It is supplied in a bottle filled with a protective solution. The electrode cannot be refilled.

ESD50242



BT-BT Extension cable (analogue)

A 5-m long cable for extending the length of analogue BT sensor cables.

ESD50247



Adapter 4mm – BT

For connecting sensors with 4-mm plugs to interfaces with BT inputs such as CMES, $\,$



Data-Logger stand

Plastic stand for the CMES data-logger.

ESD50249



BT - IEEE1394 cable

ESD50248

The BT – IEEE1394 sensor cable (1.5 m length) is used for BT sensors, which are equipped with the IEEE1394 socket. These sensor cables are sold per piece (BTsc_1) and in packages of four (BTsc_4).



EduScience Wireless Sensors can be used to measure without an interface. They are simple, user-friendly, and offer more mobility and flexibility. They can be used anywhere without the need for power or wired connections and are suitable for a wide range of student experiments.

Connectivity: The sensors operate wirelessly via Bluetooth or wired via USB and can be used with a variety of Devices: computers, Chromebooks and mobile devices.

Display: The sensors are equipped with a color OLED screen which displays the battery level and the measured sensor value. This unique feature makes the sensors suitable for use as independent measuring devices.

Battery: The sensors have a large battery capacity and a smart way to save power by automatically turning off when they're not used. They can be used an average of 12 hours without needing to be charged. work with all platforms on which the ES Data logging Coach software works.

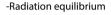
Wireless Temperature Sensor

Range:- 40 to 125 C Range : -40 to 125 C

Resolution: 0.06 C

can be used for the Following Experiments :

- Principle of the mixture.
- Cooling.
- Thermal equilibrium.
- Specific Heat Of Metals.



ESD50046

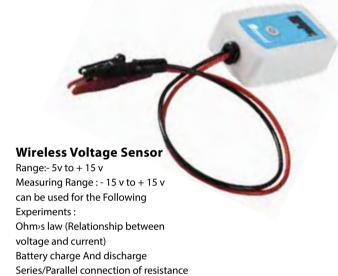


Wireless Current Sensor

Range: - 3.0~+3.0 A

Resolution: 0.5mA The measuring principle of this «Wireless Current Sensor» is that a wire with a unique resistance value is measured using a voltage proportional to the current according to Ohm's last It can be used for Ohm's law experiment with voltage sensor or for magnetic resistance test of electric resistance or current and since it is a wireless sensor, no connecting cable is needed. Experiment list Ohm's law (relationship between voltage and current) Charge and discharge of battery Voltage of solar cell Making a coin battery Resistance depending on the length and cross-sectional area of the sharp core

ESD50163



ESD50162



Wireless Gas Pressure Sensor

Range: -1000~+3000hPa Resoluion:0.244 hPa

The voltage of a solar cell

Wireless gas pressure sensor» measures relative values to ambient pressure. When

measuring pressure, it

converts to an intermediate form, such as a displacement, which converts the displacement into an electrical output, such as a voltage or current. This wireless sensor does not require a separate cable so that can be used easily in complex experiment environments. Also, it is possible to connect up to 4 sensors at same time, so you can use it with other kinds of sensors together.

Experiment list; Boyless Law; Cloud creation principle Reaction rate according to acid concentration Solubility of Gas with Temperature





Resolution: 0.001 pH

Wireless pH sensor is a sensor that measures hydrogen io concentration. It is a principle to determine the pH value from the potential differ. ence between the glass electrode and the reference electrode with two standard solutions that know the pH value.

The Science Cube Wireless pH Sensor does not require a separate connection cable, so it can be easily used in complex experimental environments such as monitoring pH change during neutralization of acid-base, chemical reaction and checking pH in a water tank during photosynthesis.

You can use this sensor for investigation of acid rain and water quality as well. Experiment

list Neutralization

PH measurement of various solutions

ESD50098



Wireless Force & Acceleration

Sensor Range: -80 to 80 N can be used for the Following Experiments:

- Hook's Law
- Frictional force
- The synthesis of two forces

Action and reaction, - The law of Inertia The principle of a lever Impact and momentum,

Weight in the water (Buoyant force)

ESD50170



Wireless pH with Glass Body (100°C)

Range: 0~14 pH Resolution: 0.001 pH

Wireless pH sensor is a sensor that measures hydrogen io concentration. It is a principle to determine the pH value from the potential differ. ence between the glass electrode and the reference electrode with two standard solutions that know the pH value.

The Science Cube Wireless pH Sensor does not require a separate connection cable, so it can be easily used in complex experimental environments such as monitoring pH change during neutralization of acid-base, chemical reaction and checking pH in a water tank during photosynthesis.

You can use this sensor for investigation of acid rain and water quality as well. Experiment

list Neutralization

PH measurement of various solutions



Wireless Conductivity Sensor

Range: 0~4 20:000 uS/cm

Resolution: 0.3 uS/cm

The wireless conductivity sensor can measure the conductivity of a solution or the total ion concentration of an aqueous sample.

Conductivity measurement can directly infer the super ion concentration of the sample, even if the specific ion is unknown during the environmental test of the aqueous sample.

Experiment list

Significance of cell division

Electrolytes and non-electrolytes

Neutralization reaction





Wireless CO2 Gas Sensor

Range: 0~5.000 ppm Resolution: 2.44 ppm

The wireless CO sensor can measure carbon dioxide in the air or in confined spaces such as botanical gardens and animal kennels. In addition, it is a sensor that can measure the amount of carbon dioxide produced by respiration of small creatures such as crickets by using an experimental tool such as an Erlenmeyer flask. Experiment list Yeast respiration photosynthesis Respiratory rate as a function of temperature Metabolic rate of insects according to temperature Changes in citric acid and sodium bicarbonate

ESD50051



Wireless ORP

(Oxygen Reduction Probe) Sensor

Range: -450 ~41,000mV Resolution: 0.5mV

Wireless ORP sensor ORP sensor is a test device that measures the ratio of oxidation (loss of electrons) and reduction (gain of electrons) of dissolved substances in solution.

The unit is m, and it can be measured together with the pH value of a solution.

Experiment list: Measurement of redox degree Transformation of Coke

ESD50101



Wireless Oxygen Gas Sensor

Range: 0 ~ 25% Resolution: 0.01%

The wireless oxygen sensor is a sensor that accurately measures the amount of oxygen in the air or in an enclosed space,

The wide range enables any experiment or measurement, and can measure atmospheric air along with carbon dioxide,

Experiment list Photosynthesis Plant oxygen

ESD50049



Wireless Fine Particles Sensor

Range:0~ 500 min Resolution: 1 am

The wireless fine dust sensor can measure fine dust in the air and simultaneously measure fine dust (10um) and ultrafine dust (2.5um). Experiment list

Measure whether fine dust is generated when using a gas stove

Measurement of fine dust in the air Measuring the effect of air purifying plants Measurement of fine dust according to location

ESD50055



Wireless Electrode Amplifier Sensor







Wireless B-Differential Gas Pressure Sensor Range: -4650 ~ 650 hPa

Resolution: 0.355 hPa

Wireless pressure sensor B has a narrower range than pressure sensor A. It can measure pressure more accurately, has excellent resolution and is used in chemical experiments where a small amount of gas is generated. Experiment list

Decomposition of hydrogen peroxide

How clouds are formed

Reaction rate according to surface area

Experiment list

Decomposition of hydrogen peroxide

How clouds ane formed

Reaction rate according to surface are



Wireless Colorimeter/ Turbidity Sensor

Measurement Range: ±0.5 V, ±2 V, ±10 V

Measurement range: ± 0.5 V, ± 2 V, ± 10 V Display: 0.96»

Battery: Li-polymer (700mAh) Wireless: BLE 4.2

Wired: USB-C

Experiment list: Charging measurement by induction and frictional

contact

ESD50105





Wireless Salinity Sensor

Range: 0~ 50 pot Resolution: 0.02 pot

Experiment list Measuring sea salt level Measuring salinity by season

ESD50100



Wireless Temperature / Humidity Sensor

Range: 0~100% . Resolution: 2%

Wireless temperature-humidity sensor is a sensor that can measure relative humidity and temperature at the same time. It outputs a voltage according to the relative humidity in the air and detects humidity by air circulation.

Experiment list

Measurement of evaporation rate according to humidity

Observation of optimal growth conditions by relative humidity in greenhouses, etc.

Comparison of static electricity generation according to humidity

ESD50048



Wireless Dissolved Oxygen Sensor

Range: 0~50 mg/L Resolution: 1%

The wireless DO sensor is an optical dissolved oxygen sensor and is a wireless DO sensor for measuring dissolved oxygen in aqueous solution. Measured values are automatically compensated for temperature,

barometric pressure and salinity

Experiment list

Photosynthesis of aquatic plants

Water quality measurement



Wireless Thermocouple Sensor

Range: -200 ~ 1200°C Resolution: 0.6°C

Experiment list

Experiment list

Flash point measurement

 $Temperature\ measurement\ for\ inner\ flame, outer\ flame\ and\ flame\ core$





Actuator Set

The Actuator Set 062 can be used to introduce the students to the basics of control technology. The set consists of the following elements: 3 red and 3 black 4-mm wires, 12-V switch, lamp holder with 3 coloured 12-V bulbs, 12-V buzzer, 12-V direct current motor, and propeller to connect to motor. All elements make use of the 4-mm buses.

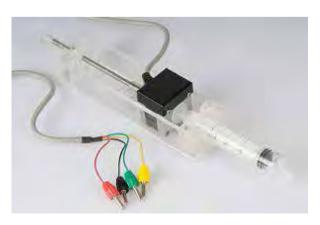
ESD50258



Heating Coil

The Heating Coil 018 can be used as an actuator in control systems. The coil has 4 mm plugs for easy connection. The Heating Coil has to be supplied with 24 volt or less.

ESD50260



Titrator - Step - Motor Burette

ESD50263



Switch Module

The Switch Module 063 is a solid-state-relay (SSR) that allows you to control $110-230\,V$ devices by a voltage of $3\,V$ DC or more up to $25\,V$). The relay is connected to the mains ($110\,V$ up to $230\,V$) via a Euro-connector at the rear of the module. The relay can supply devices up to $1150\,W$.

ESD50259



Cuvette for Colorimeter BT29i

ESD50261



Cuvette holder for Colorimeter BT29i







Matter And Its Changes Kit 1

Consist of:

- 1. Watch Glass Ø 80 mm 1 pc
- 2. Glass Funnel 75 mm 1 pc
- 3. Stirring Rod Ø 5 x 150 mm, Glass 2 pcs
- 4. Measuring Pipette 10 ml 1 pc
- 5. Measuring Cylinder 10 ml, Glass 1 pc
- 6. Measuring Cylinder 25 ml, Glass 1 pc
- 7. Beaker 100 ml 3 pcs
- 8. Beaker 250 ml 1 pc
- 9. Volumetric Flask 100 ml 2 pcs
- 10. Test Tube Ø 25 x 150 mm 1 pc
- 11. Test Tube Ø 25 x 150 mm with Side Pipe 1 pc
- 12. Mortar and Pestle, OD Ø 80 1 set
- 13. Wire Gauze 14 x 14 cm without Ceramic 1 pc
- 14. Tripod Stand Ø 100 x 80 mm 1 pc
- 15. Spirit Burner 60 ml, Stainless 1 pc
- 16. Universal Clamp Ø 70 mm 1 pc
- 17. Boss head Clamp 1 pc
- 18. Stand Base with 3 Clamps 1 pc
- 19. Stand Foot 1 pc
- 20. Stand Rod Ø10 x 250 mm 1 pc
- 21. Stand Rod Ø10 x 500 mm 1 pc
- 22. Alcohol Thermometer -10?C 110?C 1 pc
- 23. Analogue Stopwatch 1 pc
- 24. Dropping Pipette 10.5 cm 2 pcs
- 25. Pipette Filler 1 pc
- 26. Rubber Stopper with One Hole, Ø 21/27 mm
- 27. Wash Bottle 250 ml 1 pc
- 28. Spatula, Stainless Steel 1 pc
- 29. Experiment Manual Book 1 exp

Complete with 2 tool holder tray and packed in

a firm plastic box

Support Tools (sold separately):

Balance 311 g 1 set

Dimension: (L) 61.00 x (W) 26.00 x (H) 17.00 cm

Weight: 3.820 kg

ESC54137





Matter And Its Changes Kit 3 Consist of:

- 1. Watch Glass Ø 80 mm 1 pc
- 2. Glass Funnel Ø 75 mm 1 pc
- 3. Glass Stirring Rod Ø 5 x 150 mm 2 pcs
- 4. Measuring Pipette 10 ml 1 pc
- 5. Beaker 100 ml 4 pcs
- 6. Glass Measuring Cylinder 10 ml 1 pc
- 7. Glass Measuring Cylinder 25 ml 1 pc
- 8. Volumetric Flask 100 ml 2 pcs
- 9. Test Tube Ø 16 x 150 mm 6 pcs
- 10. Mortar and Pestle 1 set
- 11. Evaporating Basin 75 ml 1 pc
- 12. Spot Plate 1 pc
- 13. Wire Gauze 14 x 14 cm without Ceramic 1 pc
- 14. Tripod Stand, Circular 1 pc
- 15. Spirit Burner 60 ml, Stainless 1 pc
- 16. Thermometer Alcohol -10°C 110°C 1 pc
- 17. Analogue Stopwatch 1 pc
- 18. Dropping Pipette 10.5 cm 2 pcs
- 19. Pipette Filler 1 pc
- 20. Wash Bottle 250 ml 1 pc
- 21. Spatula, Stainless Steel 1 pc
- 22. Test Tube Holder 1 pc
- 23. Test Tube Brush? 24 mm 1 pc
- 24. Test Tube Rack, Plastic 1 pc
- 25. Experiment Manual Book 1 exp

Complete with 2 tool holder tray and packed in a firm plastic box, Additional tool (sold

separately): Balance 311 g (KNE 23) **Dimension:** (L) 61.00 x (W) 26.00 x (H) 17.00 cm

Weight: 3.180 kg

ESC54139





Matter And Its Changes Kit 2 Consist of:

- 1 Watch Glass Ø 80 mm 1 pc
- 2 Glass Funnel Ø 75 mm 1 pc
- 3 Glass Stirring Rod Ø 5 x 150 mm 2 pcs
- 4 Measuring Pipette 10 ml 1 pc
- 5 Beaker 100 ml 3 pcs
- 6 Glass Measuring Cylinder 10 ml 1 pc
- 7 Glass Measuring Cylinder 25 ml 1 pc
- 8 Volumetric Flask 100 ml 2 pcs
- 9 Evaporating Basin 75 ml 2 pcs
- 10 Wire Gauze 14 x 14 cm without Ceramic 1 pc
- 11 Tripod Stand, Circular 1 pc
- 12 Spirit Burner 60 ml, Stainless 1 pc
- 13 Universal Clamp Ø 70 mm 1 pc
- 14 Boss-head Clamp 1 pc
- 15 Ring with Stem, Ø 65 mm 1 pc
- 16 Stand Base with 3 Clamps 1 pc
- 17 Stand Foot 1 pc
- 18 Stand Rod Ø 10 x 250 mm 1 pc
- 19 Stand Rod Ø 10 x 500 mm 1 pc
- 20 Thermometer Alcohol -10 ° C 110 ° C 1 pc
- 21 Dropping Pipette 10.5 cm 2 pcs
- 22 Pipette Filler 1 pc
- 23 Wash Bottle 250 ml 1 pc
- 24 Spatula, Stainless Steel 1 pc
- 25 Crucible Tong 250 mm 1 pc
- 26 Magnet Bar 1 pc
- 27 Iron Metal 1 pc
- 28 Copper Metal 1 pc
- 29 Zinc Metal 1 pc
- 30 Ion Compounds Nomenclature Card 1 pack
- 31 Nylon Thread 1 pc
- 32 Experiment Manual Book 1 exp

Complete with 2 tool holder tray and packed in a firm plastic box

Support Tools (sold separately):

- 1. Balance 311 g 1 set
- 2. Periodic System of Elements, 111 Elements1 pc
- 3. Distillation Kit 1 set
- 4. Water Filter Apparatus, Simple 1 set

Dimension : (L) 61.00 x (W) 26.00 x (H) 17.00 cm

Weight: 3.780 kg

Tel: +44 (0)203 8685740





Physical Properties Kit

This kit introduces students to the physical properties of a variety of substances, including solid chemicals and solutions. In experiment one, students observe the colour, state of matter, odour, texture, and pH of substances. In experiment two, students determine the solubility and density of the same substances. Includes all required chemicals and substances, vocabulary and symbols worksheets, experiment worksheets, and reproducible laboratory procedures. Chemical symbols for elements and chemical formulas for compounds are introduced. Required, but not included: balance and general laboratory supplies. Designed for 24 students working in six groups of four. Grades 6-11

ESC54140



Characteristics Of Matter

Ten experiments exploring the Characteristics of Matter include: Properties of Matter, States of Matter, Physical Properties of Solids, Physical Properties of Liquids, Melting Point, Boiling Point, Solubility of Solids, Density, Chemical Properties, and Identification of Unknown Solutions. Includes reproducible student labs, reproducible assessment materials for each lab, vocabulary, and complete answer keys. Required, not included: balance, ice, (24) small test tubes, test tube racks, 10 ml graduated cylinders, (6) beakers or clear cups, chemical splash goggles. Allow three one hour lab periods. Designed for 24 students working in groups of four. Meets national standards for grades 5-9.

ESC54136



Chemical Properties Kit

Students test the chemical properties of seven different solutions by mixing them in each possible combination and observing their reactions. Evidence of chemical reactions observed include gas production, colour changes, and formation of precipitates. After becoming familiar with the chemical properties of the solutions, students use this information to identify any of the four unknown solutions. The kit includes all required chemicals, reaction plates, additional bottles for making student group chemical sets, reproducible student procedures, reproducible worksheets, and complete answer keys. Designed for 24 students working in six groups of four. Meets national standards for grades 9-12.

ESC54141

Chemical Properties Refill

ESC54142



Physical And Chemical Properties Kit

This very extensive kit includes chemicals and micro well plates for examining physical properties including the density and specific gravity of solids and liquids, the melting points of solids, the boiling points of liquids, and the colligative properties of mixtures as well as chemical properties including the percent composition of various compounds and properties of transition elements on a micro scale. This kit is all you will need for a complete lab experience on matter; physical and chemical properties for your students. Includes two lab quizzes. Kit contains lead shot. Required, but not included: balance, Bunsen burner, water bath, and standard laboratory supplies. Designed for 24 students working in six groups of four. Grades 9-12







Chemical Equations I Kit

Introduce students to chemical equations as they perform and observe two different single replacement reactions and two different double replacement reactions. Colour changes, precipitate formation, and gas production are observed. The kit includes all required chemicals, a vocabulary exercise, and reproducible worksheets and laboratory procedures. Worksheets give students practice with chemical symbols, naming compounds, valence, and chemical formulas for compounds and radicals (polyatomic ions). Written laboratory exercises give students practice in identifying properties and completing and balancing single replacement and double replacement reactions. All chemicals included, additional laboratory supplies required. Designed for 24 students working in six groups of four. Addresses national standards for grade levels 8-12.

ESC54144





Chemical Equations Ii Kit

Introduce students to chemical equations as they perform and observe decomposition and synthesis reactions. Changes in chemical and physical properties are observed and the concept that some reactions require heat to proceed is introduced. The kit includes all required chemicals, reproducible procedures, a vocabulary exercise, and reproducible worksheets emphasizing balancing equations, valence, writing chemical formulas, and identifying reactants and products. Required, but not included: Bunsen burner (optional) and general laboratory supplies. Designed for 24 students working in six groups of four. Grades 8-12

ESC54145





Chemical Formulas I Kit

Students experiment to determine the correct chemical formulas for compounds by combining chemicals in various ratios, and observing the combination that produces the greatest amount of precipitate. Using the ratio of the combination, they determine the chemical formulas for the newly formed substances. Includes all required chemicals, vocabulary and chemical formula writing and naming worksheets, data sheets, reproducible procedures, and answer keys. Designed for 24 students working in six groups of four. Grades 7-12

Chemical Formulas I Refill

ESC54146

ESC54147



Chemical Formulas Ii Kit

Students experimentally determine the correct chemical formulas for compounds by combining chemicals in various ratios and observing the combination that produces the greatest amount of precipitate. Using the ratio of the combination, students determine the chemical formula for the newly formed substances. Includes more challenging stoichiometry than Chemical Formulas I and contains inquiry components. Includes all required chemicals, vocabulary, chemical formula writing and naming worksheets, data sheets, reproducible procedures, and answer keys. Designed for 24 students working in six groups of four. Grades 9-12





Ionic Interaction Kit

This kit provides an introduction to ionic interactions. It gives students exposure to a large number of reactions, allowing maximal observation for a limited amount of time and effort. Includes precipitate forming, gas forming, and non-ionized product forming reactions. The investigation may be extended to teach students a number of additional basic chemical principles: including writing ionic formulas for the products formed; writing ionic interaction equations; relating placement of elements in the periodic table to their reactivity; and developing solubility principles from empirical evidence. Ideal for high school chemistry or physical sciences courses. Follow-up activities are suggested at the end of the instruction manual. Designed for 24 students working in groups of four. Contains cadmium nitrate and lead nitrate. Grade level 9-12.

ESC54149

Ionic Interaction Refill

ESC54150



Water Test (Qualitative Ion) Kit

Learn to test for chloride, nitrate, phosphate, mercury, magnesium, chromate, lead, and carbonate ions, which are indicators of water pollution. The kit includes test solutions containing each of the ions for establishing controls and Universal Indicator solution and a Universal Indicator pH Chart, which may be used for determining water pH. This kit may be used for detecting the presence of polluting ions in any fresh water supply. Required, but not included: sulphuric acid, deionized water, and glassware. Contains lead nitrates. Designed for 24 students working in six groups of four. Grades 9-14

ESC54151



Fluorescent Dye Kit

Here is an attention grabbing method for introducing discussions about the electromagnetic spectrum and light. The set contains blue, green, orange and red fluorescent dyes suitable for colouring water for demonstrations, particularly those performed under black light (ultraviolet radiation of wavelength 320-400nm). The observed colour of conventional pigments and dyes results from their selective absorption and reflection of various wavelengths of light in the visible portion of the spectrum. The appearance of colour is absent when no light source is present. Certain materials have the property of absorbing radiant energy of wavelengths not visible to the human eye (usually 320 to 400 nm), converting them into energy of longer wavelengths, and emitting them as visible light. Materials possessing this property are said to be luminescent. Grades 8-12

ESC54152



Molarity I Kit

Students determine Molarity experimentally using a simple titration method with an indicator solution. This kit includes two experiments, one in which students determine different molarities of an acid and one in which students determine different molarities of a base. Includes reproducible student worksheets for learning to write chemical formulas and to calculate formula mass, concentration, molarity, and molar mass. Kit includes all required chemicals, reproducible procedures for laboratory experiments, worksheets, assessment, and answer keys. Required but not included: goggles, evaporating dishes, and stirring rods. Designed for 24 students working in groups of four.

Molarity I Refill

ESC54153







Reaction Rate Factors I Kit

Four experiments expose students to factors which affect the rate of chemical reactions; heat, concentration, catalysts, and surface area. Using a variety of reactions, including neutralization reactions, and acid base indicators, students are able to time the chemical reactions by observing specific colour changes. The indicators used in these kits provide colourful results which are user friendly for students. The included worksheets focus on factors which affect reaction rates and their commercial significance. Includes all required chemicals, worksheets, reproducible laboratory procedures, and answer keys. Required, but not included: hot water bath, ice bath, and common laboratory supplies. Designed for 24 students working in six groups of four. Grades 9-12

ESC54155



Acids And Bases I Kit

Students are introduced to acids, bases, and the pH scale through lab experiments using indicator solutions and papers commonly used in acid base titration's. In the first experiment, students compare eight test substances using red litmus paper, blue litmus paper, phenolphthalein, methyl orange, bromothymol blue, and phenol red. Then they compare the pH of common substances using Universal indicator solution, Universal indicator paper, and wide range pH paper. Students are asked to compare and contrast the results of these methods. Students observe the relationship between pH, ion concentrations, and the strengths of acids and bases. Students may continue to investigate by testing additional substances with the indicators. Lab activities are written in easy-to-understand, step-by-step format, and include worksheets, assessment materials, and answer keys. Includes small bottles for setting up group stations, and all required chemicals and supplies except goggles, gloves, and distilled water. Designed for 24 students working in groups of four. Meets national standards for grades 7-12.





Ice Melting Kit

his elegantly simple kit challenges student's preconceived notions on concepts of heat and thermodynamics. The melting plates display quizzical properties when an ice cube melts on each plate. The aluminium plate that is cold to the touch melts the ice faster than the plastic foam plate, even though both have equivalent temperatures. A great demonstration for conductivity and heat transfer.

Supplied with instruction manual.

Kit includes:

- -1 aluminium plate (9x9x1 cm)
- -1 plastic foam plate (9x9x1 cm)

ESC54159



Smoke Cell - Whitley Bay

For observation of 'Brownian Motion' in smoke particles. Consists of box with plastic lid as well as flanges that allow easy attachment to standard microscopes. The box contains a smoke cell, cylindrical condensing lens and a 12 volts 3W festoon bulb. Apparatus pre-set to focus the light at correct height. The set is supplied with detailed instructions and a squeeze bottle type smoke generator. Dimensions 90 x 46 x 20 mm

ESC54161



Heat Absorption Radiation Comparator

This apparatus allows demonstration for comparing heat absorption & radiation between dull and black bodies. Comprises of 12 V bulb which acts as a heat source and 2 parabolic metal bodies one finished in black and one in shiny metal. These bodies have 2 thermometer holders attached for temperature readings. Instructions included.

ESC54162



Solids Materials Kit- In Gratnell Storage Tray

it comprises two each of seventeen blocks of different materials.

A variety of materials in the form of rectangular blocks, intended to familiarize students with appearance, 'feel', texture, hardness and density of a range of common substances. Kit comprises two each of seventeen blocks as detailed below.

Blocks, $50 \times 40 \times 30$ mm. Softwood, hardwood, paraffin wax, aluminium, Iron, foamed polystyrene.

Blocks, 20 x 20 x 100 mm. Perspex, glass, slate, aluminium, softwood, Marble

Blocks other sizes: Lead 50 x 50 x 20 mm Aluminium 50 x 50 x 80 mm Hardwood 50 x 50 x 200 mm Brass 20 x 20 x 50 mm Iron 40 x 40 x 20 mm

ESC54160



Charls Law Apparatus Single

A clear simple way of demonstrating that the volume of a fixed mass of gas is proportional to its absolute temperature. It comprises a Jolly's apparatus on an anodised stand. A scale is marked in mm. Spring clips secure an air reservoir and adjustment is made using a vertical clamping rod. Comes complete with a mercury levelling tube and Jolly air thermometer. The whole is supplied in a strong polished wooden storage box.

Our Charles Law apparatus does not use mercury as this is now deemed as a highly dangerous substance. Supplied with oil bead and ready to use.

0-5N x 0.1, 0-10N x 1 & 200g x 1g Height 33.5cm x Width 40cm x Depth 1.5cm Capillary tube 0-20cm reading Thermometer -10 - 100 degrees centigrade

Charls Law Apparatus Pk Of 10

ESC54158











Statistics: Precision and Accuracy

Use a variety of basic volumetric measuring techniques to distinguish between precision and accuracy, while identifying an unknown liquid by its density. Students work as analytical chemistry to learn the importance of measurement reproducibility. Lessons include statistical analysis calculations of mean, standard deviation, and relative error. Students address the Inquiry Question: How is a physical constant used to verify the precision of a measuring tool Ideal for AP Chemistry, Chemistry I or II, or Honours Chemistry. Glassware is included in the Enhanced Kit (16-101B). Kit designed to exceed 2013 AP Next Generation National Standards. State of the Art instructor's Manual features background material, easy to follow stepwise protocols, assessment questions, sample data, modelled calculations, and an answer key. Recommended: analytical balance; not included. Meets AP Science Practice 2. Designed to accommodate 24 students working in groups of two. Grades 10-14

ESC54235

Statistics: Precision and Accuracy With Glass Ware

Use a variety of basic volumetric measuring techniques to distinguish between precision and accuracy, while identifying an unknown liquid by its density. Students work

as (analytical chemists) to learn the importance of measurement reproducibility. Lessons include statistical analysis calculations of mean, standard deviation, and relative error. Students address the Inquiry Question: How is a physical constant used to verify the precision of a measuring tool Ideal for AP Chemistry, Chemistry I or II, or Honours Chemistry. Glassware is included in the Enhanced Kit (16-101B). Kit designed to exceed 2013 AP Next Generation National Standards. State of the Art instructor's manual features background material, easy to follow stepwise protocols, assessment questions, sample data, modelled calculations, and an answer key. Recommended: analytical balance; not included. Meets AP Science Practice 2. Designed to accommodate 24 students working in groups of two. Grades 10-14

ESC54236

Spectrophotometric analysis Of Copper: Beers Law

Explore the interaction of light with copper ions in solution using photons from the visible portion of the electromagnetic spectrum. Students examine the relationship between transmittance, absorbency and solution concentration using Beers Law (A = ??b ° C) after determining Max. Fulfil the AP chemistry requirement for using a Spectrophotometer and learn to perform serial dilutions. Includes an inquiry based extension for determining the amount of copper in a penny (nitric acid not included). Experiments are adjustable to fit your lab period; minimal prep time. Ideal for AP or Honours Chemistry. Kit designed to exceed 2013 AP Next Generation National Standards. State of the Art instructor's manual features background material, easy to follow stepwise protocols, assessment questions, sample data, modelled calculations, and an answer key. Requires additional equipment: spectrophotometers, 10mL volumetric flasks, 1mL pipettes. Meets AP Science Practices: 2, 3 & 5. Designed to accommodate 24 students working in groups of two. Grades 10-14

ESC54237

Synthesis and Gravimetric Analysis Of Cobalt Oxalate Hydrate

Students will enjoy this lab as they experience multiple techniques required for AP chemistry; synthesizing cobalt oxalate hydrate by precipitation, gravimetric analysis

by dehydration, and oxidation-reduction (red-ox) titration on a unique compound. Experiments are well delineated and can be easily adjusted to fit your lab period: minimal prep time. State of the Art instructors manual features background material, easy to follow stepwise protocols, assessment questions, sample data, modelled calculations, and an answer key. Additional equipment required: analytical balance, burette, Bunsen burners, standard laboratory glassware. Meets AP Science Practices 2 & 7. Designed to accommodate 24 students working in groups of two. Grades 10-14





Acid Base Titration: an Inquiry Investigation

Students standardize a sodium hydroxide tit-rant with a primary standard, KHP; then find the concentration of an unknown acid solution. Ideal for fulfilling the AP

Chemistry Inquiry requirements as students investigate: What is the mass percent of citric acid in a piece of candy such as a Sour Patch Kid, Warhead, Smartee, Or Sweet Tart Minimal prep time and easily adapted to shorter lab periods. Ideal for AP or Honours Chemistry. State of the Art instructor's manual features background material, easy to follow stepwise protocols, assessment questions, sample data, modelled calculations, and an answer key. Additional equipment required: stir plates, burette, 250 & 500mL volumetric flasks, 1mL pipette, pH meter (optional). Meets AP Science Practices 2 & 3. Designed to accommodate 24 students working in groups of two. Grades 10-14

ESC54239



Separating Substances-by Adsorption Chromatography

Students learn the fundamentals of thin-layer chromatography (TLC), polarity, and intermolecular forces as they separate dyes on silica gels using predetermined solvent mixtures. In an inquiry exercise, students analyse their experimental results and propose unique solvent proportions to improve the chromatography system. After each lab group runs a newly designed experiment, all results are shared and analysed to determine the best solvent mixture for dye separation. Ideal for AP Chemistry, Chemistry I, Chemistry II, or Honours Chemistry courses. State of the Art Instructor?s Manual features background material, easy to follow stepwise protocols, assessment questions, sample data, modelled calculations and an answer key. Additional equipment required: standard laboratory supplies. Meets AP Science Practices 1 & 5. Grades 10-14

ESC54240



Stoichiometry: Reactions With Copper Compounds

Perform four quantitatively different reactions utilizing copper compounds. Identify reaction type, determine mole ratios experimentally, identify limiting reactants, and determine percent yield. The reaction series provides experience synthesizing ionic compounds, a coordination complex, and elemental copper. Ideal for AP Chemistry or Honours Chemistry. State of the Art instructors manual features background material, easy to follow stepwise protocols, assessment questions, sample data, modelled calculations, and an answer key. Additional equipment required: fume hood, vacuum filtration (recommended), hot plates, balances and basic laboratory supplies. Meets AP Science Practices 2 & 6. Designed to accommodate 24 students working in groups of two. Grades 10-14

ESC54241



Stoichiometry: Mole Ratio Of An Unknown

This unique, hands-on lab shows students how to treat heat as a quantitative product, using continuous variation (Jobs method). The reagent combination used provides reliable results far superior to competitor kits. State of the Art instructors manual features background material, easy to follow stepwise protocols, assessment questions, sample data, modelled calculations, and an answer key. Minimal prep time; easily adapted to shorter lab periods. Suitable for Honers and AP chemistry. Additional equipment required: glassware, thermometers, and Styrofoam cups. Meets AP Science Practices 2, 3 & 5. Designed to accommodate 24 students working in groups of two. Grades 10-14





Using Colligative Properties To Determine The Molar Mass Of An Unknown

Students investigate all aspects of freezing point depression including: solvent freezing constant, Vant Hoff factor, and molar mass. Fulfil the AP required inquiry component while determining important applications of freezing point depression in everyday life. Direct students to design an experiment to resolve: What is the lowest temperature at which road treatment containing calcium chloride would be effective, Includes multiple solvents and solutes, both ionic and molecular. State of the Art instructor's manual features background material, easy to follow stepwise protocols, assessment questions, sample data, modelled calculations, and an answer key. Additional equipment required: hot plates, analytical balances, thermometers, and basic lab supplies. Meets AP Science Practices 2, 3 & 5. Designed to accommodate 24 students working in groups of two. Grades 10-14

ESC54243



Determining Molar Mass Using The Ideal Gas Equation

This unique hands-on method of exploring gases allows students to compare properties of real and ideal gases (based on KMT assumptions) as they determine the molar mass of a volatile solvent. Students manipulate volume, temperature and pressure while using the ideal gas equation to compute moles of gas. Ideal for Honours or AP Chemistry. State of the Art instructor's manual features background material, easy to follow stepwise protocols, assessment questions, sample data, modelled calculations, and an answer key. Additional equipment required: hot plates, balances, ring stands, glassware, and basic lab supplies. Meets AP Science Practices 1, 2 & 5. Designed to accommodate 24 students working in groups of two. Grades 10-14

ESC54244



Reaction Rate And Order

Using this superior reagent system, students are able to generate highly reproducible results from an iodine clock reaction. Students determine factors that affect reaction

rates as they vary reactant concentrations, measure rates, calculate reaction orders, and calculate reaction rate constants. Activation Energy is also determined utilizing the logarithmic form of the Arrhenius equation by plotting temperature and reaction rate. State of the Art instructor's Manual features background material, easy to follow stepwise protocols, assessment questions, sample data, modelled calculations, and an answer key. Additional equipment required: stop watch, pipette, lab glassware. Meets AP Science Practices 1, 2 & 4. Designed to accommodate 24 students working in groups of two. Grades 10-14

ESC54245



Determining Molar Enthalpy Using Hess's Law

This calorimetry lab uses reliable reactions as students measure temperature changes, determine the calorimeter constant and ultimately calculate the molar enthalpy of formation for magnesium oxide using Hess's Law. Students compare lab results to standard values. Ideal for Honours or AP Chemistry. State of the Art instructor's Manual features background material, easy to follow stepwise protocols, assessment questions, sample data, modelled calculations, and an answer key. Procedures can easily be divided or used as collaborative lessons. Additional equipment required: thermometers, balances, basic lab supplies, and Styrofoam cups. Meets AP Science Practices 2 & 7. Designed to accommodate 24 students working in groups of two.





Le Chateliers Principle

Students create and analyse four different equilibrium systems, allowing manipulation of a variety of stresses to show how systems respond by shifting in the direction that reduces stress. Students vary temperature, alter the pH of a weak acid indicator, use silver ions to draw chloride from a complex ion by precipitation, and design a set of conditions for optimum yield. Students make predictions and test their hypotheses. State of the Art instructor's Manual features background material, easy to follow stepwise protocols, assessment questions, sample data, and an answer key. Ideal for AP Chemistry, Chemistry II, or Honers Chemistry. Standard lab equipment and fume hood required. Experiments are readily adjustable to fit your lab periods. Meets AP Science Practices 6 & 7. Designed to accommodate 24 students working in groups of two.

ESC54247



Identifying Weak Acids By PKA

Students perform titration on weak acids while measuring pH, perform qualitative analysis by determining PKA values of acids, perform quantitative analysis by calculating molar masses, confirm the identities of weak acids, and derive and use the Henderson-Hasselbalch equation. Features four different weak acid solids; three monoprotic, one diprotic. Ideal for two 45 minute lab periods. State of the Art Instructors manual features background material, easy to follow stepwise protocols, assessment questions, sample data, modelled calculations, and an answer key. Additional equipment required: pH meter, Burette, pipettes, and volumetric flasks. Meets AP Chemistry Science Practices 2, 5, and 6. Designed to accommodate 24 students working in groups of two. Grades 10-14

ESC54248



Preparing Buffer Solutions And Determining Their Properties

Students utilize the Henderson-Hasselbalch equation in analysing buffers. After being assigned one of the three buffer systems, pH, and component acids, bases or conjugates, students construct a buffer and test it based on their own calculations. Students compare the pH changes of their buffer to those of distilled water and other solutions. Minimal prep time required. State of the Art instructor's Manual features background material, easy to follow stepwise protocols, assessment questions, sample data, modelled calculations, and an answer key. Additional equipment required: pH meter, glassware. Meets AP Science Practices 4 & 7. Designed to accommodate 24 students working in groups of two. Grades 10-14

ESC54249



Determining The Equilibrium Constant (and Temperatures Effect) Withbeers Law

Loaded with important concepts and techniques for the AP chemistry student; determine the equilibrium constant using Le Chatelier's Principle and Beer's Law (using spectrophotometry) to determine equilibrium concentrations of reactants and products. Addresses the inquiry question: What is the effect of temperature on the equilibrium constant? Minimal prep time; easily adapted to three shorter lab periods. State of the Art instructor's manual features background material, easy to follow stepwise protocols, assessment questions, sample data, modelled calculations, and an answer key. Additional equipment required: spectrophotometers, glassware, and thermometers. Meets AP Science Practices 2 & 7. Designed to accommodate 24 students working in groups of two. Grades 10-14





Electrochemical Cells Voltaic And Electrolytic

Analyse oxidation-reduction (red-ox) reactions and become familiar with the activity series of metals and its importance in predicting the products of replacement reactions. Students test both Voltaic and Electrolytic cells, and predict and measure cell voltages. Lessons include learning to separate oxidation-reduction (red-ox) reactions into half reactions, as well as identifying both anode and cathode activity. Minimal prep time required. State of the Art instructor's manual features background material, easy to follow stepwise protocols, assessment questions, sample data, modelled calculations, and an answer key. Additional equipment required: a DC VOLTMETER, glassware. Meets AP Science Practices 3 & 7. Designed to accommodate 24 students working in groups of two. Grades 10-14

ESC54251



Ap Chemistry Series (Includes Kit ESC54235)

The EduScience AP Chemistry Series includes 16 labs designed to meet the essential laboratory requirements of an AP Chemistry course. As a series, these labs address the 2013 Essential Knowledge, Science Practices, and Learning Objectives established by the AP College Board. Six labs incorporate specific Inquiry components and all labs contain instructions for optional inquiry adaptations. For planning purposes, each manual contains a complete breakdown of the AP Framework correlations for each of the 16 lab experiments. Grades 10-14

ESC54252



Ap Chemistry Series (Includes Kit ESC54236)

The EduScience AP Chemistry Series includes 16 labs designed to meet the essential laboratory requirements of an AP Chemistry course. As a series, these labs address the 2013 Essential Knowledge, Science Practices, and Learning Objectives established by the AP College Board. Six labs incorporate specific Inquiry components and all labs contain instructions for optional inquiry adaptations. For planning purposes, each manual contains a complete breakdown of the AP Framework correlations for each of the 16 lab experiments. Grades 10-14





Ge Filtration: Plant Pigments

This gel filtration technique allows students to take advantage of differences in molecular size and structure to separate plant pigments using chromatographic columns. Students pack their own Sephadex G-25 chromatographic columns. They observe the separation of anthocyanin, carotene, chlorophyll and xanthophyll from a mixture of these pigments. This separation is due to differences in size as well as the presence of aromatic and cyclic compounds. The greater the number of rings in the pigments, the greater the affinity of the pigments for the gel granules. Columns may be re-used. Required, but not included: beet, spinach, and coleus leaves, balance, lab glassware and supplies. Designed for 24 students working in six groups of four. Grades 10-14

ESC54310



Chromatography Paper Roll G N 1

High-quality paper suitable for general analytical separations, electrophoresis, or chromatography requirements for educational use.

10 mm	ESC54311
20 mm	ESC54312
50 mm	ESC54313
100 mm	ESC54314
150 mm	ESC54315



Chromatography Tank With Lid

Transparent rectangular jars Size 22.5x20x20 cm. For chromatography purpose use. Supplied with glass lid





Chromatography Paper Sheet G N 1

No. 1, Chromatography Filter Paper sheet, Pack of 100.

Size 25x25cm	ESC54316
Size 10x30cm	ESC54317
Size 20x20cm	ESC54318
Size 46x57cm	ESC54319



Simple Chromatography Kit

This exceptional introduction to paper chromatography, students learn how chromatography can identify the makeup of organic and inorganic substances. Students perform experiments to compare the effects of different solvents on the separation of chlorophyll extract and dyes into their constituent components.











Drop Neutralization Kit

A great way to each the principles of acid base titration to students with a limited laboratory background. Eliminates the need for expensive laboratory equipment for teaching titration, and includes all necessary materials alleviating extensive lab preparation. Ideal for leading into discussions about titration, acids, bases, pH, buffers, or environmental or physiological buffering systems in a range of science applications from Biology to Environmental Sciences to Physiology. Kit includes instructor's manual with background information, assessment materials, an answer key, and enough materials for 24 students working in six groups of four. Meets national standards for Grades 8-12.

ESC54359

Stoichiometry Kit

Explore the types of chemical reactions, mole ratios, and stoichiometric equivalents which are central to all chemical calculations. Students perform a series of experiments including an electro-chemistry decomposition reaction, single replacement reactions, and double replacement reactions. Students are encouraged to predict possible products, as well as write and balance equations representing the reactions. Students will discover the quantitative nature of chemical equations and the experimental basis of numerically balancing coefficients. Includes a lab quiz. Kit includes all required chemicals and supplies for performing experiments on a micro-scale. Kit contains lead nitrate. Required, but not included: 9V batteries with clips and leads. Designed for 24 students working in six groups of four. Grades 9-12

ESC54360

Stoichiometry Refill

ESC54361

Acids, Bases And Salt, Micro-chem Kit

Students engage in three experiments to investigate the properties of acids, bases, and salts. First students use five solution indicators to explore the pH of acids and bases. Then they experience a micro-titration procedure for reacting acids and bases to form salts and learn the difference between strong and weak acids and bases. They also learn how a titration curve shows the endpoint or neutralization point for indicators. Finally, students apply the techniques they be learned to determine the concentration of acetic acid in household vinegar by titrating the weak acid with a strong base and using a phenolphthalein indicator. Includes all necessary chemicals and micro supplies for investigations. Required, but not included: distilled water. Designed for 24 students working in six groups of four. Grades 9-12

ESC54362

Acids, Bases And Salt, Micro-chem Refil

ESC54363

Basic Microchemistry, Single Kit

Basic Microchemistry includes all laboratory supplies required to perform the following five experiments chemistry labs in micro-scale: Mole Ratios, Catalysts, Rates of Reaction, Equilibrium, and Titration's. These sets provide an economical solution for increasing lab hour requirements with inexpensive, reusable supplies, reduced chemical costs, and easy clean up. You will need to supply small amounts of standard laboratory chemicals. Each single kit is ideal for two students. Class sets supply 24 students working in pairs. Student manuals feature stepwise protocols, clear instructional diagrams, and questions for assessment. Instructor's manuals are complete with answer keys.





Basic Microchemistry, Class Pack Kit

Basic Microchemistry includes all laboratory supplies required to perform the following five experiments chemistry labs in micro scale: Mole Ratios, Catalysts, Rates of Reaction, Equilibrium, and Titration's. These sets provide an economical solution for increasing lab hour requirements with inexpensive, reusable supplies, reduced chemical costs, and easy clean up. You will need to supply small amounts of standard laboratory chemicals. Each single kit is ideal for two students. Class sets supply 24 students working in pairs. Student manuals feature stepwise protocols, clear instructional diagrams, and questions for assessment. Instructor's manuals are complete with answer keys.

ESC54365



Advanced Microchemistry, Single Kit

Advanced Microchemistry includes all laboratory supplies required to perform the following ten experiments chemistry labs in micro-scale; Mole Ratios, Catalysts, Rates of Reaction,

Equilibrium, Titration, Acids & Bases, Reduction of Hydrogen Sulphide, Reduction of Copper Oxide, Electrochemical Cell, and Decomposition of Water by Electrolysis. These sets provide an economical solution for increasing lab hour requirements with inexpensive, reusable supplies, reduced chemical costs, and easy clean-up. You will need to supply small amounts of standard laboratory chemicals. Each single kit is ideal for two students. Class sets supply 24 students working in pairs. Student manuals feature stepwise protocols, clear instructional diagrams, and questions for assessment. Instructor's manuals are complete with answer keys. Grades 9-12

ESC54366



Advanced Microchemistry, Class-pack

Advanced Microchemistry includes all laboratory supplies required to perform the following ten experiments chemistry labs in micro-scale; Mole Ratios, Catalysts, Rates of Reaction,

Equilibrium, Titration, Acids & Bases, Reduction of Hydrogen Sulphide, Reduction of Copper Oxide, Electrochemical Cell, and Decomposition of Water by Electrolysis. These sets provide an economical solution for increasing lab hour requirements with inexpensive, reusable supplies, reduced chemical costs, and easy clean up. You will need to supply small amounts of standard laboratory chemicals. Each single kit is ideal for two students. Class sets supply 24 students working in pairs. Student manuals feature stepwise protocols, clear instructional diagrams, and questions for assessment. Instructor's manuals are complete with answer keys. Grades 9-12





Molecular Model

Can be used to explain elementary organic and inorganic compound structures.

Overall size: 23 x 17 x 3.5 cm, Material: Plastic

Showing different bonding types It contains different colour balls indicating different atoms, All of the parts fit neatly into plastic storage box Complete with manual instruction

Consist of:

- 1. Carbon Black 13 pcs
- 2. Hydrogen White 26 pcs
- 3. Sulphur Yellow 1 pc
- 4. Nitrogen Blue 3 pcs
- 5. Oxygen Red 13 pcs
- 6. Halogen Green 6 pcs
- 7. Medium connector Grey 26 pcs
- 8. Long flexible connector Grey 12 pcs
- 9. Short connector White 34 pcs

Dimension : (L) 23.00 x (W) 17.00 x (H) 3.50 cm

Weight : 0.500 kg

ESC54388



Molecular Model Diamond

Ideal for demonstrate diamond molecular structure.

Material: Plastic.

Consist of 30 plastic balls with 4 holes and 40 medium connectors,

represents as carbon atoms and bonds.

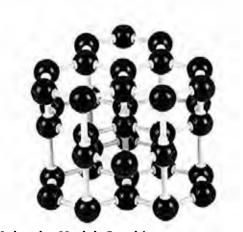
All parts are packed in a plastic box for storage while not in use.

Complete with manual instruction

Dimension :(L) 23.50 x (W) 17.50 x (H) 3.50 cm

Weight: 0.445 kg

ESC54389



Molecular Model, Graphite

Ideal for demonstrate diamond molecular structure.

Material : Plastic

Consist of 57 plastic balls with 5 holes, 69 medium connectors (grey), and 14 long connectors (purple) represents as carbon atoms and bonds, All parts are packed in a plastic box for storage while not in use

Complete with manual instruction

Dimension :(L) 23.20 x (W) 17.00 x (H) 3.50 cm

Weight: 0.480 kg



Molecular Model, Fullerene C-60

 $Ideal \ for \ demonstrate \ fullerene \ (C-60) \ molecular \ structure.$

Material: plastic.

Consist of 60 plastic balls with 4 holes and 90 medium connectors, represents as carbon atoms and bonds.

All parts are packed in a plastic box for storage while not in use.

Complete with manual instruction.

Dimension :(L) 23.50 x (W) 17.00 x (H) 7.00 cm

Weight: 0.700 kg

ESC54390





Molecular Model Orbit System, Basic

Showing different bonding types. Can be used to explain organic and inorganic compound structures, including crystal structures. It contains different colour balls with different quantity of legs, indicating different atoms.

Material: plastic.

All of the parts fit neatly into compartmentalized box.

Complete with manual instruction.

Set of Molecular Model Orbit System, consist of:

- 1 Oxygen Type a Red 15pcs Legs 1pc
- 2 Halogen Type a Green 15pcs Legs 1pc
- 3 Hydrogen Type a White 120pcs Legs 1pc
- 4 Hydrogen Type b White 50pcs Legs 2pc
- 5 Sulphur Type c Yellow 25pcs Legs 2pc
- 6 Oxygen Type d Red 30pcs Legs 2
- 7 Carbon Type i Black 50pcs Legs 3pcs
- 8 Nitrogen Type j Blue 15pcs Legs 3pcs
- 9 Carbon Type k Black 78pcs Legs 4pcs
- 10 Nitrogen Type k Blue 5pcs Legs 4pcs
- 11 Oxygen Type k Red 21pcs Legs 4pcs
- 12 Sulphur Type k Yellow 5pcs Legs 4pcs
- 13 Halogen Type I Green 30pcs Legs 6pcs
- 14 Metal Type I Grey 30pcs Legs 6pcs
- 15 Metal Type q6 Grey 40pcs Legs 6pcs (reel shape)

16 Metal Type q3 Grey 80pcs Legs 3pcs

17 Bonding pegs x Translucent 10pcs Legs 1pc

18 Plastic straw 4 x 210 mm Grey 3

19 Plastic straw 4 x 210 mm Green 5

20 Plastic straw 4 x 210 mm Red 3

21 Plastic straw $4 \times 210 \text{ mm White } 5$

22 Plastic straw $4 \times 120 \text{ mm}$ Clear 3

23 Plastic straw 4 x 35 mm Green 350 24 Plastic straw 4 x 20 mm Green 140

25 Plastic straw 4 x 35 mm White 45

26 Plastic straw 4 x 50 mm White 30

Dimension :(L) 31.00 x (W) 22.50 x (H) 4.50 cm

Weight:0.600 kg

ESC54392



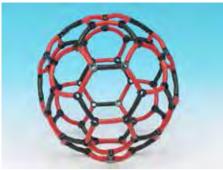
Biochemistry Student Kit

Learn about amino acids; monosaccharides, glycerol, fatty acids, steroids, purines and pyrimidines, peptides, disaccharides, lipids, nucleosides, nucleotides, proteins, polysaccharides, nucleic acids.

Advanced student set in pocket-sized plastic container.

255 atoms, 220 bonds, 44 page booklet covers the above structures.





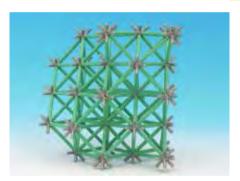
Carbon 60 Model

Carbon 60 is the nearly spherical football-shaped molecule consisting of 60 carbon atoms. It is also known as the Buckyball and is the most stable example of the fullerene.

This Colour-wave model kit shows the highly symmetrical structure of Carbon 60. It is composed of 12 pentagons and 20 hexagons with alternating double and single bonds illustrated by different colour tubes in the model.

Part of the Orbit Colour-wave series, the model is easy to assemble and robust with sufficient atoms to see the relationships between structure and physical properties. Different coloured tubes illustrate the different the types of bonding

ESC54393



Copper Model Kit

Robust model containing sufficient atoms to see the relationships between structure and physical properties. Easy-to-build, low-cost kits, students learn as they follow the building instructions and model description.

Shape: Irregular | Height: 17cm | 38 copper atoms

ESC54395



Graphite Model Kit

Robust model containing sufficient atoms to see the relationships between structure and physical properties. Easy-to-build, low-cost kits, students learn as they follow the building instructions and model description.

Shape Three layers | Height 16cm; Width 22cm | 94 carbon atoms

ESC54397



Carbon Nano-tube Model

Carbon nano-tubes are currently one of the most intensively studied nano-materials with their unique molecular structure resulting in several potential exciting applications in current day nano-science.

Using this kit you can make a graphite sheet, carbon nano-tube, carbon 60 (buckyball) and related structures with up to 260 carbon atoms.

Instructions show how the carbon atoms can be arranged to illustrate the different symmetries of carbon rings in the nano-tube to create the chair, zigzag and chiral structures.

The kit uses the Minit molecular building system and contains 260 atoms to make a nano-tube model 50cm long.

ESC54394

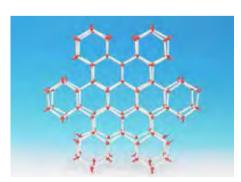


Diamond Model Kit

Robust model containing sufficient atoms to see the relationships between structure and physical properties. Easy-to-build, low-cost kits, students learn as they follow the building instructions and model description.

Shape Octahedron | Height 22cm | 84 carbon atoms

ESC54396



ICE Model Kit

Robust model containing sufficient atoms to see the relationships between structure and physical properties. Easy-to-build, low-cost kits, students learn as they follow the building instructions and model description.

Shape: Snowflake | Diameter: 36cm | 96 oxygen atoms





IRON Model Kit

Robust model containing sufficient atoms to see the relationships between structure and physical properties. As easy-to-build, low-cost kits, students learn as they follow the building instructions and model description.

Shape: Irregular Height: 20cm 71 iron atoms

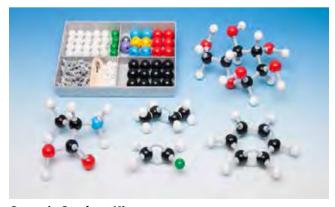
ESC54399



Inorganic Organic Student Kit

14 hydrogen (I), 6 carbon (IV), 7 oxygen (II, IV), 3 nitrogen (III, IV), 2 sulphur (II, VI), 2 phosphorus (III, V), 6 halogen (I), 8 metal (I, II, III, IV, VI), 4 brown (III, IV, V, VI), 3 lone pair 2D paddles (beige) Links: 20 medium (grey), 5 medium (purple), 12 long flexible (grey)

ESC54402



Organic Student Kit

20 hydrogen (I), 12 carbon (IV), 6 oxygen (II), 4 nitrogen (III, IV), 2 sulphur (IV, VI), 1 phosphorus (IV), 4 halogen (I), 1 metal (I) Links: 26 medium (grey), 12 long flexible (grey), 26 short (white), 1 short link remover tool

ESC54404



Magnesium Model Kit

Robust model containing sufficient atoms to see the relationships between structure and physical properties. Easy-to-build, low-cost kits, students learn as they follow the building instructions and model description.

Shape: Irregular | Height: 14cm | 38 magnesium atoms

ESC54400



Vibrating Atom Kit

This vibrating atom model formally demonstrates how atoms making up a solid (e.g. a crystal) are held together by spring-like forces.

Hold the model at arm's length and shake lightly, and pupils will see the individual atoms vibrate and move independently due to the springs holding them together. They will aso notice that they remain in the same formation within the model, as they do in a solid.

Best used for demonstration purposes due to the ease with which the springs can be bent or misplaced.

Comprises 9 white ball atoms arranged in a $3 \times 3 \times 3$ lattice, connected by 54 springs. Dimensions: $185 \times 185 \times 185$ mm

ESC54408



Advance Chemistry Kit

18 hydrogen (I), 8 carbon (IV), 7 oxygen (II, IV), 4 nitrogen (III, IV), 6 chlorine (I), 6 fluorine (I), 3 sulphur (II, IV, VI), 2 boron (III, IV), 4 phosphorus (III, IV, V, VI), 6 metal (II, III, IV,VI), 3 lone pair 3D lobes (beige) Links: 26 medium (grey), 5 medium (purple), 12 long flexible (grey)





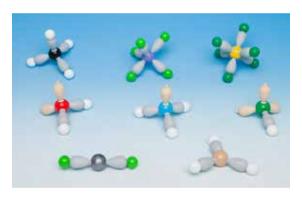
Inorganic Organic Teacher Kit

Designed to make a wide range of open type models, such as amines, inorganic acids, metal oxides and simple organic structures.

Spheres: 4 metal (1 hole), 3 metal (2 holes), 2 metal (3 holes), 4 metal (4 holes), 1 metal (6 holes), 14 carbon (4 holes), 6 carbon (5 holes), 12 hydrogen (1 holes), 2 hydrogen (2 holes), 6 nitrogen (4 holes), 4 nitrogen (3 holes), 13 oxygen (2 holes), 4 oxygen (4 holes), 5 oxygen (1 holes), 8 sulphur (2 holes), 4 sulphur (4 holes), 1 sulphur (6 holes), 4 phosphorus (4 holes), 1 phosphorus (5 holes), 2 phosphorus (3 holes) and 8 halogen (1 holes).

Links: 38 grey medium, 12 purple medium, 36 long flexible. Atomic orbitals: 6 pink unhybridised p-lobes, 6 purple unhybridised p-lobes, and 6 Ione pair of electrons lobes.

ESC54403



Shapes Of Molecules Electron Repulsion Theory

his set contains sufficient parts to make eight atomic models. Each model is an example of the different orientations of the bonds and cover coordination numbers 1 to 6. Lone pairs are represented by brown spheres or brown pear shaped parts. The latter is useful as protonated models of NH4+ and H3O+ may be built thus demonstrating Acid/Base theory. Spheres: 1 carbon (4 holes), 1 oxygen (4 holes), 1 nitrogen (4 holes), 1 sulphur (6 holes), 1 phosphorous (5 holes), 1 chlorine (4 holes), 1 boron (3 holes), 1 metal (beryllium) (2 holes), 7 chlorine (1 holes), 9 fluorine (1 holes), 13 hydrogen, 6 circular lone pair orbitals, 6 pear shaped lone pair orbitals. Links: 26 grey pear shaped sigma bonds, 6 short links (to be used with circular lone pairs).

ESC54407



Sodium Chloride Model Kit Self-assembly kit

ESC54409



Organic Teacher Kit

The TEACHER organic set can be used to make any number of simple molecules and is designed for those needing to make many models, such as teachers and lecturers.

The atom parts are made of solid plastic spheres and are available with from 1 - 6 holes in the usual angular orientations.

The contents are contained within a sturdy plastic storage box.

The contents of the organic teacher set include;

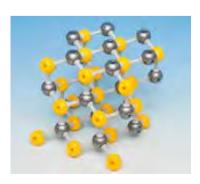
Atoms:

- 24 carbon atoms (black, 4 hole, tetrahedral)
- 6 carbon atoms (black, 5 hole, trigonal bipyramidal)
- 2 carbon atoms (black, 2 hole, linear)
- 6 carbon atoms (black, 3 hole, trigonal)
- 12 oxygen atoms (red, 2 hole, angular)
- 40 hydrogen atoms (white, 1 hole)
- 4 nitrogen atoms (blue, 4 hole, tetrahedral)
- 1 sulphur atom (yellow, 4 holes, tetrahedral)
- 1 sulphur atom (yellow, 2 holes, angular)
- 4 phosphorus atoms (purple, 4 hole, tetrahedral)
- 8 halogen atoms (green, 1 hole)
- 2 metal atoms (grey, 1 hole)
- 1 metal atom (grey, 2 holes, angular) Bonds:
- 55 medium links (grey, single bonds)
- 25 long flexible links (grey, double/triple bonds)
- 60 short links (white, all bond types)
- 6 pink unhybridised p-lobes, 6 purple unhybridised p-lobes and 6 lone pair of electrons lobes.

Tool:

• 1 tool (used for disassembling models containing short link bonds)

ESC54405



Tel: +44 (0)203 8685740

Zinc Sulphide Model Kit 45 atom self-assembly kit

ESC54410



40



Families Of Elements I Kit

Students are introduced to families (groups) within the periodic table that have the same number of electrons in their outer energy orbitals. Tests are conducted to determine if those elements have similar chemical activity. This kit includes two experiments, one in which students determine the reactivity of the non-metals in the halogen family and one in which they observe the properties of oxygen. Worksheets focus on identifying characteristics of elements within the halogen, oxygen and nitrogen families, separation methods, and the observed chemical reactions. Kit includes all required chemicals, reproducible procedures for laboratory experiments, a test, and answer keys. Required, but not included: chemical ventilation hood, general lab supplies. Includes nitric acid. Designed for 24 students working in six groups of four. Grades 9-12

ESC54446



Elements, Compounds & Mixtures I Kit

In the laboratory, students identify that a mixture can be separated using one of a variety of methods such as evaporation, distillation, filtration, or crystallization when differences in solubility exist. Experiment one is designed to separate a mixture of an element and a compound using solubility and filtration. Experiment two is designed to separate a mixture of two compounds using solubility and filtration. Experiment three is designed to separate a mixture using chromatography. Experiment four is designed to separate a mixture by evaporation. Includes all required chemicals, vocabulary exercise, and reproducible laboratory procedures and worksheets. Required, but not included: balance and laboratory supplies. Designed for 24 students working in groups of four. Meets national standards for grades 7-10.

ESC54447

Elements, Compounds & Mixtures I Kit

ESC54448



Elements, Compounds & Mixtures I I

This kit illustrates the concepts of elements, compounds, and mixtures with special emphasis on creating new compounds in chemical reactions. Students witness evidence of chemical changes identified by the formation of precipitates, colour changes, odours, or the production of gas. The kit includes enough materials to repeat the experiment twice, with vocabulary and activity worksheets focused on chemical symbols, chemical formulas, chemical names, components of common compounds, and distinguishing between chemical and physical changes. Answer keys included. Required, but not included: balance and laboratory supplies. Designed for 24 students working in six groups of four.

ESC54449

Elements, Compounds & Mixtures II Kit Refill





Hoffman Electrolysis Apparatus

Made of Borosilicate glass, graduated. For study of composition of water by volume and E.C.E. of hydrogen by electrolysis. H-shaped glass unit has two connected limbs, with stopcocks at the top and electrodes at the bottom. Limbs are connected to central tube and bulb reservoir at apex of outer tubes and inner tubes respectively. Outer limbs graduated 0-50 x 0.2ml.

Stable retort stand and clamps included. Includes one pair each of platinum and carbon electrodes. Supplied with Instructions.

ESC54493



Spare Carbon Electrodes In Rubber Stoppers

Spare Carbon Electrodes in rubber stoppers, Overall length 8cm

ESC54495



Spare Platinum Electrodes In Rubber Stoppers

Spare Platinum Electrodes in rubber stoppers, Overall length 8cm

ESC54494



Absorption Tube With Side Arm

Absorption tubes, calcium chloride, U-form with side arms and strong walls, borosilicate glass.

,		
Height	Diameter	NO
100mm	13mm	ESC54496
150mm	15mm	ESC54497



Beehive Shelf

This porcelain Beehive Shelf is glazed inside and out. It is for use in pneumatic troughs for gas collection.

Diameter: 100mm.



 $Borosilicate\ glass\ with\ heavy\ foot\ and\ grounded\ flange.\ Lid\ not\ included.$

Height 20 cm, Diameter 5 cmESC54499Height 25 cm, Diameter 5 cmESC54500

ESC54498



Graduated glass syringe Gas tight Heat resistant. Size: Outlet tube external diameter: 7mm. Capacity: 100cm³ x 1cm³.





Gas Jar Cover Dia 6 Cm 6CM Circulars sheet glass, ground one side.





Kinetic Theory Model

To study the motion and behaviour of gas molecule, works on 9 to 12V DC, vibrates a small platform inside a transparent tube, which further vibrates steel balls inside the tube. Includes steel balls and two floats.

ESC54503



Salt Bridge

For use in experiments involving the measurement of cell EMF under conditions of forward, zero and reverse current flow. The bridge comprises an inverted "U" tube with its ends closed by sintered discs. This apparatus provides a more effective method of making reversible cells then the wet filter paper or agar gel methods. Dia. of arms 13 mm, overall width 80 mm, overall height 100 mm

ESC54510



Trough Pneumatic, Soda Glass

Made of soda glass. Dia 30 cm, height 12.5cm

ESC54511

Trough Pneumatic, Soda Glass

Made of soda glass. Dia 25cm, height 12.5cm

ESC54512

Trough Pneumatic, Soda Glass

Made of soda glass. Dia 20cm, height 12.5cm

ESC54513



Simple Gas Preparation Kit

Simple gas preparation kit use for producing gasses which can be collected over water, e.g. Oxygen,hydrogen and carbon dioxide. Comprises with plastic tank with lid, test tube stand, five test tube 150x24mm and stopper, special gas chimney shelf,delivery tube and tubing connector. The tank and lid form a storage box for all components.

FSC54504

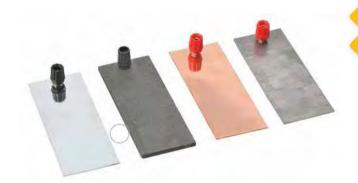


Plate For Simple Cell Lead

Plate size 125 x 50 mm and fitted with 4 mm socket terminals.

ESC54505

Plate For Simple Cell Carbon

Plate size 125 x 50 mm and fitted with 4 mm socket terminals.

ESC54506

Plate For Simple Cell Zinc

Plate size 125 x 50 mm and fitted with 4 mm socket terminals.

ESC54507

Plate For Simple Cell Copper

Plate size 125 x 50 mm and fitted with 4 mm socket terminals.

ESC54508



Trough Pneumatic, Polypropylene, Dia 18cm, Height 6cm

Dia 18cm, height 6cm, Polypropylene, autoclavable, can be used for storage, sterilizing and drying lab-ware.





Electrolysis Cell

For quick demonstration of electrolysis. Comprises open-ended glass tube fitted with two carbon electrodes by means of a rubber stopper. Connections made by crocodile clips and an insulating strip of plastic in the bung prevents the clips being shorted accidentally. Consists of glass tubes of dia 74 x 24mm, and collecting tubes of dia 75 x 10mm.

ESC54514



With terminal, length 140 mm and dia. 15 mm



Distillation Set Quickfit

Set includes:

- 1 x Celsius Thermometer
- 1 x Vacuum Take Off Adapter(BORO 3.3)
- 1 x 3 Way Thermometer Adapter
- 1 x 500 ml Round Bottom Flask BORO 3.3
- 1 x 1000 ml Round Bottom Flask BORO 3.3
- 1 x 250 mm Liebig Bondenser, 10mm Hose Connection BORO 3.3
- 1 x Latex Hose

ESC54580



Organic Quick fit Set - 27BU/M - 14/23 Joints

27 BU ORGANIC CHEMISTRY SET 27 ITEMS AS DESCRIBE. **INCLUDES:**

For preparative chemistry up to advanced level. This set enables a number of preparations to be carried out on the 30g scale. Contents: Pear shaped flask, 50cm, Still head, Liebig condenser, Screw-cap adaptor, Receiver adaptor, Thermometer, 0 - 360 C x 2 C, Dropping funnel, 50cm with Rotaflo tap, Stopper, Air leak/steam inlet tube.

ESC54576



Organic Chemistry Glassware Kit 9Pcs

This starter set is designed for organic chemistry labs and is suitable for small-scale procedures up to 30g. All of the ground glass components in this set have a joint size of 14/23. Includes a sturdy storage box with foam insert.

Contents:

Dropping Funnel (50ml with Rotoflo Stopcock) 1, Receiver Delivery Adapter, Long Stem 1, Stopper for Dropping Funnel 1, Screw Cap Adapter 1, Air Leak / Steam Inlet Tube 1, Thermometer 1, Boiling Flask (50ml) 1, Still Head 1, Liebig Condenser 1

ESC54577

Organic Chemistry Glassware Kit 16Pcs

This deluxe set is designed for organic chemistry labs and is suitable for preparations up to 150g. All glassware is jointed (joint sizes available upon request). Includes a sturdy storage box with foam insert. **Contents:**

Still Head, (socket size 14/23, cone size 19/26) 1, Dropping Funnel (100ml) (socket size 19/26, cone size 19/26) 1, Thermometer Pocket (cone size 14/23) 1, Air Leak / Steam Inlet Tube (cone size 19/26) 1, Round Bottom Flask (250ml) (socket size 24/29) 1, Erlenmeyer Flask (250ml) (socket size 24/29) 1, Reducing Adapter (socket size 19/26, cone size 24/29) 1, Round Bottom Flask (100ml) (socket size 24/29) 1, Receiver Adapter with Vent (socket size 19/26, cone size 24/29) 1, Multiple Adapter (socket size 19/26, cone size 24/29) 1, Round Bottom Flask (50ml) (socket size 24/29) 1, Stopper, (cone size 19/26) 1, Stopper, (cone size 19/26) 1, Stopper, (cone size 24/29) 1, Receiver Delivery Adapter, Long Stem (socket size 19/26) 1.









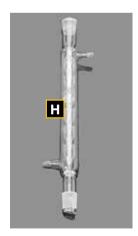
















A Quick-fit Joint Clips Conical Joints

Conical joint clips Keck pom 14/23 yellow

Conical joint clips keck pom 19/26 blue

ESC54583

Conical joint clips keck pom 24/29 green ESC54584

B Quick-fit Reduction Adaptors

Hollow stopper

14/23 flat bottom ESC54587

19/26 flat bottom ESC54588

Quick-fit Reduction Adaptors

Reduction adapter socket

 14/23 cone 19/26
 ESC54591

 14/23 cone 24/29
 ESC54592

 19/26 cone 24/29
 ESC54593

Quick-fit Expansion Adaptor

Expansion adapter socket

 19/26 cone 14/23
 ESC54597

 24/29 cone 14/23
 ESC54598

 24/29 cone 19/26
 ESC54599

Quick-fit Condenser Liebig With Screw-thread

Liebig condenser with screw thread

 160mm socket 14/23 cone 14/23
 ESC54603

 160mm socket 19/26 cone 19/26
 ESC54604

 400mm socket 24/29 cone 24/29
 ESC54605

Quick-fit Condenser Liebig

Liebig condenser with glass connector

160mm socket 14/23 cone 14/23 ESC54609
400mm socket 24/29 cone 24/29 ESC54610

Boro 3.3 Glass

Available with glass and plastic screw thread connector ;Inner bulb section provides increased cooling surface and is ideal for Reflux

 160mm socket 14/23 cone 14/23
 ESC54703

 250mm socket 14/23 cone 14/23
 ESC54704

 300mm socket 24/29 cone 24/29
 ESC54705

 400mm socket 24/29 cone 24/29
 ESC54706

Condenser , Air Coil

ESC54612

Quick-fit Multiple Adapter With 2 Necks

Multiple adapter 2 neck one joint at 45 degree socket

sales@eduscienceuk.com

19/26 cone 19/26 ESC54614

G Quick-fit Receiver Adaptor

Receiver delivery adapter short stem socket

 14/23 65mm
 ESC54618

 19/26 65mm
 ESC54619























Quick-fit Receiver Adaptor

Receiver delivery adapter long stem socket

14/23 190mm ESC54622 19/26 200mm ESC54623

Quick-fit Receiver With Vented Bend

Receiver adapter bend with vent socket

14/23 cone 14/23 ESC54626 9/26 cone 19/26 ESC54627

Quick-fit Recovery Bend Sloping Adaptor

Recovery bend sloping cone size to fit flask

14/23 cone size to fit condenser 14/23 ESC54630

Quick-fit Still Head

Still head plain socket 14/23 cone size to fit flask

14/23 cone size to fit condenser 14/23 ESC54634 14/23 cone size to fit flask 19/26 ESC54635

Quick-fit Thermometer Pocket

Thermometer pocket stem length 45mm cone 14/23 ESC54638

M Quick-fit Air Leak Tube Gas Inlet Tube

Air leak tube gas inlet tube cone 14/23 ESC54641

P Quick-fit Flask Pear Shaped

Pear shape flask single neck din

50ml socket 14/23 ESC54663 100ml socket 14/23 ESC54664

Quick-fit Flask Pear Shaped With Tow Necks

Pear shape flask two neck din 50ml centre socket

14/23 side socket 14/23 ESC54669

R Quick-fit Flask Conical

Conical flask din 250ml socket 19/26 ESC54673

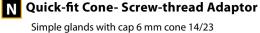
Quick-fit Separating Funnel Conical Squibb Shape

Separating funnel PTFE key stopcock clear glass din Squibb without

graduation pp stopper

50ml 19/26 ESC54678 100ml 19/26 ESC54679 250ml 29/32 ESC54680 500ml 29/32 ESC54681 1000ml 29/32 ESC54682





ESC54645

ESC54648

ESC54649

ESC54650

ESC54651

ESC54652

ESC54653

ESC54654

ESC54655

ESC54656





Round bottom flask single neck din 25ml socket 14/23 50ml socket 14/23 100ml socket 14/23 100ml socket 19/26 100ml socket 24/29 250ml socket 14/23 250ml socket 19/26

O Quick-fit Flask Round Bottom, Short Neck





Quick-fit Dropping Funnel Stem With Cone

250ml socket 24/29

1000ml socket 24/29

Separating funnel PTFE key stopcock clear glass pear shape stem inside cone without graduation pp stopper 50ml socket

19/26 cone 19/26 ESC54687 100ml socket 14/23 cone 14/23 **ESC54688**



V Separating Funnel pear Shape PTEE

with pp stopper Rotaflow stopcock • Made from DIN ISO 3585, BORO 3.3 GLASS • Complies with DIN 4800 Standards, Available with PP Stopper

50ml socket 14/23 cone 14/23 ESC54690 100ml socket 14/23 cone 14/23 ESC54691

U Quick-fit Dropping Funnel, Open

Separating funnel (cylindrical) PTFE needle valve stopcock without graduation pp stopper

50ml socket 14/23 cone 14/23 ESC54692 100ml socket 14/23 cone 14/23 ESC54693





EduScience UK



We Contribute To Future Education

www.eduscienceuk.com



Refregirators





Safety Goggles Soft Vinyl Direct Vent

lightweight and direct ventilation sides. Clear Color with Poly Carbonate Clear Lens and elastic headband Eye protection designed to protect your eyes from flying objects

Certification: ANSI Z87.1, CE EN166



Safety Goggles Soft Vinyl Indirect Vent

lightweight and direct ventilation sides. Clear Color with Poly Carbonate Clear Lens and elastic headband Eye protection designed to protect your eyes from flying objects

Certification: ANSI Z87.1, CE EN166

ESG58738



Safety Goggles Soft Vinyl Splash PPE - Youth Size

ESG58737

Eye protection with clear, flexible vinyl body 15% smaller than standard safety eyewear Indirect ventilation Splash and impact protection Protects against 100% of U.V. rays Meet ANSI Z28.1+ high-impact standards Clear uncoated polycarbonate lens and elastic headband

ESG58739



Safety Spectacle ES130

Safety Spectacle with enhanced side protection Clear Lens CE Certified

ESG58742 Each ESG58743 PK/10



Safety Spectacle ES660

Safety Spectacle, Clear Lens Impact Resistant, UV380No Metal Parts Including, Ventilation Glasses Temples CE, ANSI & AS/ NZS Certified

ESG58745 Each ESG58746 PK/10



Safety Spectacle ES661

Frame-less Safety Spectacle ANSI Certified

ESG58747 Each ESG58748 PK/10



Safety Spectacle ES802

Safety Spectacle Clear Lens, Impact Resistant, UV380Frameless Wraparound CE, ANSI, AS / NZS Certified

ESG58749 Each ESG58750 PK/10





Safety Spectacle ES9008

Safety Spectacle Frame-less Wraparound Adjustable Temples CE Certified

ESG58751 Each **ESG58752** PK/10



Safety Goggle Sporty ES01

Safety Goggle Sporty Style Safety Goggles-lightweight clear or blue PVC body to fit most face shapes Indirect Ventilation system Adjustable elastic strap,CE & ANSI Certified

ESG58757 Each **ESG58758** PK/10



Safety Goggle ES07

Safety Goggle Direct Ventilation ,CE, ANSI, AS/ NZS Certified

ESG58761 Each **ESG58762** PK/20



Can be mounted on wall, made of strong fabric hanger with pockets for up to 20 pairs of safety spectacles.

ESG58767





Safety Spectacle ESX6

Safety Spectacle/ Clear Lens Slim Style Light Weight.,CE, ANSI, AS/ NZS Certified

ESG58754 Each **ESG58755** PK/10



Safety Goggle ES07

Safety Goggle Indirect Ventilation, Adjustable Elastic Strap,CE, ANSI, AS / NZS Certified

ESG58759 Each **ESG58760** PK/10



Face Shield

ESG58763	ES03	Face Shield PC Clear Visor, Light Weight CE, ANSI Certified
ESG58764	ES03A	Face Shield Clear PC 8"X12" Polycarbonate CE, ANSI Certified
ESG58765	ES06	Face Shield PC Clear Visor, Double Bracket CE, ANSI Certified

Lens Cleaner Spray

Capacity of 250ml,Anti-bacterial, anti-static, anti-reflective cleaning spray.





Ultraviolet Sterilization Goggle Cabinet - 30-Goggle Model

Designed for use in schools where reuse of laboratory safety goggles and earphones presents a health hazard. It provides dry sterilization using ultraviolet radiation. When the doors are closed and locked, the interior can be flooded with ultraviolet light. All bacteria or micro-organisms within the cabinet are killed. The door has a key lock safety closure, and the ultraviolet lamp is automatically shut off when the doors are opened. A built-in 15-minute automatic timer controls the sanitizing period desired. 24-gauge steel cabinet. Operates on a 220V AC with a 3-wire grounded cord. Special aluminium reflective interior surface available upon request to insure complete sterilization of cabinet and goggles. Dimensions: $60 \times 780 \times 23$ cm. Supplied with a rack to hold 30 pairs of goggles. Goggles not included. White, baked enamel

ESG58773





Channel Base for protection screen

To use with protective screen

ESG58769



Protective Screen

Made of clear perspex material

dimensions: 750 x 600 x 3mm. Need channel base to mount on the table

ESG58768



Fixed Safety Screen

Made of clear perspex material dimensions hight 600 mm with 3 fixed angles

ESG58770



Folding Safety Screen

Made of clear perspex material ,dimensions : hight 600 mm with 3adjustables angles





Gloves, Leather PairMade of leather used to protect hand against heat



Hand Protectors - Silicon Superior

Heat and cold resistant silicon rubber glove, with the help of this, one can easily handle heated up material like flask, bottles beakers etc. Studded surface is used for positive grip of material with a temp. of 250?C. Pockets for fingers thumb fit every hand size.

FSG58778



Heat Resistance Gloves Pair

made from high-strength heat resistant & wear resistant & thicken degreased heat resistant cotton material.

Outer layer attached the non-slip temperature resistant silicone,

2 - Level system protect your hands! The highest heat resistant is available up to $1472^{\circ}F/800^{\circ}C.$

ESG58775

ESG58774



Foam Rubber Matting 60x40, Bench Mats

A laboratory mat made of silicone rubber is a commonly used accessory in many laboratory settings. It is a flat, flexible, and durable mat that provides a non-slip surface for working on laboratory benches and surfaces.

Silicone rubber laboratory mats are resistant to chemicals, heat, and physical wear and tear, making them ideal for use in scientific and experimental work. They can withstand high temperatures and are easy to clean and maintain.

ESG58776



Hand Protectors - Silicon

Heat and cold resistant silicon rubber glove, with the help of this, one can easily handle heated up material like flask, bottles ,beakers etc. Studded surface is used for positive grip of material with a temp. of 250 $^\circ$ C. Pockets for fingers thumb fit every hand size.

ESG5877



Flask Supports Cork Ring

Ring supports are made of compressed cork for supporting flasks or dishes.

ESG58777



Noise Reduction Headphones Adult & Children

Lightweight yet powerful, the headphones block out extraneous noise, but still allow kids to hear nearby conversations and participate in their surroundings. MINIMIZE NOISE. Ideal for noisy environments like lunchrooms, sporting events, airports or birthday parties which can be overwhelming for kids with auditory defensiveness. Reduces noise up to 20 decibels. MAXIMIZE CONCENTRATION. Muffle distracting noises to help improve focus and concentration while taking a test, doing homework, or block out background noise to reduce stress & anxiety in overwhelming situations. MADE FOR COMFORT. To perfectly fit all shapes and sizes, simply adjust the headband. They're lightweight and the padded earmuffs provide all day comfort. COMPACT AND PORTABLE. The headphones are also compact and easy to fold up so they can be taken anywhere., Certification ANSI S3.19, CE EN352-1, AS/NZS 1276 Rating DB: NRR 20, SNR 26, Class 5



Disinfectant Wipes

leaning surfaces, parts, instruments in labs, laboratory lenses, and medical offices, these wipes easily clean liquids, dust and small particles. Plus, the anti-static dispensing design reduces electrostatic discharge. As a wipes chooser, our delicate task wipes are an efficient choice, thanks to our wastereducing, one-at-a-time dispensing box. 286 Sheets/Box; 30 Boxes of Kimwipes Delicate Task Wipes/Case; 8,580 Sheets/Case; White; Pop-Up Box easily wipe up liquids, dust and tiny particles and are designed for delicate tasks.; Each wipe is useful for polishing glassware, cleaning laboratory instruments and other delicate surfaces; The anti-static dispensing system reduces lint and electrostatic discharge (for sensitive environments like labs). One-at-a-time dispensing for minimized waste

ESG58931



Paper Towel

Strong, absorbent towels. 16 packages of 250 white 1-ply towels each 21x24cm. Total count of 4000 pcs

ESG58933



Gloves Disposable Blue Powder Free - Pk/ 100.

Blue ,Vinyl made of 100% DINP material ,DINP is high quality , environment friendly and low toxicity plasticizers ,for sensitive skin contain low protein allergens , meet EN45 /ASTM D5250, CE approved , gloves 100% DEHP free ,Ambidextrous, non-sterile, single use , PK/100 Pcs

ESG58781	Small
ESG58782	Medium
ESG58783	Large
ESG58784	X Larg



Gloves Disposable Clear Powder Free - Pk/ 100.

Clear natural rubber latex gloves for sensitive skin contain low protein allergens, meet ASTM D 3578, CE standard, beaded cuff, textured surface for improved grip, ambidextrous, non-sterile, single use, PK/100 Pcs

ESG58785	Small
ESG58786	Medium
ESG58787	Large
ESG58788	X Large



Lens cleaning tissue paper

Lens Cleaning Paper Wipe Camera Wipe Microscope Glasses Kit Cleaning Tissue Lens Glasses Tissue Goggles Glasses 100*150mm; 50sheets/book

ESB52815



Rubber Gloves For Chemical Use

With Rough Finish for Chemical Use Size 8,9,10,11

ESG58805



Gloves Disposable Clear Powdered - Pk/ 100.

Clear ,Vinyl ,powdered with absorb-able corn starch, made of 100% DINP material ,DINP is high quality , environment friendly and low toxicity plasticizers , meet EN455 /ASTM D5250, CE approved , gloves 100% DEHP free ,Ambidextrous ,non-sterile, single use ,PK/100 Pcs

ESG58789	SMALL
ESG58790	MEDIUM
ESG58791	LARGE
ESG58792	X LARGE





Gloves Disposable White Powdered - Pk/ 100.

White, natural rubber latex gloves for sensitive skin contain low protein allergens, meet ASTM D 3578, CE standard, beaded cuff, textured surface for improved grip, ambidextrous, non-sterile, single use, PK/100 Pcs

ESG58793	Small
ESG58794	Medium
ESG58795	Large
ESG58796	X Large



Gloves Polythene

PE gloves, embossed for better grip, ambidextrous, non-sterile, single use ,PK/100 Pcs $\,$

ESG58806	Small
ESG58807	Medium
ESG58808	Large



Gloves Neoprene

High quality natural rubber, Chloroprene coated natural rubber latex gloves with textured palm and fingers to increase grip. Cotton flock lined for increased comfort and reduced perspiration. Protection against some detergents alkalis and acids. Extra Long cuff for better arm protection. Chloroprene coated for fat and oil protection at palm. Improved abrasion resistance, Contains natural rubber latex which may cause allergic reactions including anaphylactic response.

ESG58801	Small
ESG58802	Medium
ESG58803	Large
ESG58804	X Large



Gloves General Purpose - Pair

Medium weight gloves with raised surface pattern for excellent wet grip, Medium weight, coloured rubber household gloves with a cotton flock lined interior, Contains latex, Multi-purpose rubber gloves. Per Pair

ESG58797	Small
ESG58798	Medium
ESG58799	Large
ESG58800	X Large

Protective Clothing



Apron Disposable White Universal Size PK/100

Disposable apron ,Polythene, Size: 66 x 107cm, White pack of 100

ESG58810



Apron Disposable Blue Universal Size Pk/100

Disposable apron ,Polythene, Size: 66 x 107cm, Blue pack of 100





Lab Coat Blue Poly-cotton Men Small

Coat made of poly-cotton with 3 patch pockets, Centre back vent, longer to provide protection, blue colour

ESG58835	Small
ESG58836	Medium
ESG58837	Large
ESG58838	X Large



Mask Paper Play

Surgical disposable face mask, high breath-ability, nose adapter for correct and comfort face adjustments, high filter action (BEF APP 95%), Ear loop type, 2 play,PK/50 Pcs

ESG58843



Surgical Face Mask Ear Loop

56

Surgical disposable face mask, high breath-ability, nose adapter for correct and comfort face adjustments, high filter action (BEF APP 95%), Ear loop type, PK/50 Pcs





Lab Coat White Poly-cotton Men

Men lab coat made of poly-cotton with 3 patch pockets, Centre back vent, White

ESG58816	Small
ESG58817	Medium
ESG58818	Large
ESG58819	X Large



Mask With Valve Pk/10

General purpose use including fine toxic particles ,nose adapter for correct and comfort face adjustments

ESG58842



Face Mask For Dust

Provide comfortable fit, easy breathing, light weight, clear vision, latex and fibre free, Multi-purpose use.

Tel: +44 (0)203 8685740





Sharps Containers

 $Multipurpose sharp container, provide safe way to dispose contaminated and sharp instruments like blade, needle, scalpel \dots etc.\\$

ESG58853	Small	Capacity 2.2 Litre
ESG58854	Medium	Capacity 6.2 Litre
ESG58855	Large	Capacity 10 Litre
ESG58856	X Large	Capacity 15 Litre



Eyewash Bottle

Eyewash is ideal for irrigating eyes and general wound washing applications• 500ml bottle• Each

ESG58864



Fixed Eyewash Station

Eyewash station comes complete with 2 x 500mL bottles of eyewash, Includes quick release wall hanging brackets

ESG58866





Eye Emergency Signs

ESG58857	Size: 150 x 150mm, s/a	Board made of self adhesive	
		vinyl size:150 x 150mm	

ESG58858 Size: 200 x 150mm, PVC Board made of PVC size: 200 x 150mm

ESG58859 Size: 200 x 150mm, s/a Board made of self adhesive vinyl size: 200 x 150mm



Eyewash Pod Station

Wall mounted eyewash pod station contents : Single use, just snap off top Size H250 x W325 x D25mm \cdot Each

ESG58865



Emergency Burns Kit

Kit consist of Burn shield dressing 200 x 200mm, 2 x burn shield dressing 100 x 100mm, 2 x burn dressings DIN specification 60 x 80mm, 8 x burn blot sachets, 1 x 7.5cm x 4cm conforming bandage, 1 x waterjel burn dressing, Safety pins, 1 pair of tufkut scissors, 2 pairs of vinyl disposable glove







Eye Wash Station Cederroth

Compact eye emergency department Ensures eyewash is easily accessible when it's required Hygienic case with rubber edges protects contents from dust and dirt; Supplied with two 500ml bottles of Cederroth Neutralising Eyewash Dispenser Dimensions: 56cm x 29cm x 12cm

ESG58863



First Aid Kit Primary School

British Standard First Aid Kit for the classroom Ideal for dealing with common injuries for 6-12 years old Portable and durable soft case Includes children's plasters, digital oral thermometer & eyewash pod skit Dimensions: 23cm x 25cm x 15cm

ESG58868





First Aid Center Complete - BS 8599 Compliant

British Standard compliant comprehensive First Aid Center for managing a wide range of Laboratory accidents and emergencies

ESG58867



First Aid Kit Secondary School

British Standard First Aid Kit for secondary schools Ideal for dealing with common school injuries Durable premium Evolution case Includes HypaClens Eyewash Pods and HypaCool Instant Cold Pack skit Dimensions: 30cm x 23cm x 12cm.

ESG58869

Emergency Asthma Kit

Pack with 10 Disposable Spacers Ideal for Nurseries, Schools and Colleges Provides guidance on recognising and treating an asthma attack Pack includes an Emergency Asthma Inhaler Kit, a Emergency Asthma Inhaler Log and a Treating An Asthma Attack Poster





First Aid Kit Small

Made of strong ABS plastic which is shiny, smooth and easy to clean. The kit contains a neoprene seal which makes the kit dustproof. The wall bracket is able to secure the kit on a common house wall. The internal crystal partitions permit a more flexible and scientific item arrangement. Additionally, two swivel catches are set for closing security. Recommended use: business companies, small factories, workshops, labs, and etc.

Contents:

01 Adhesive Tape 1 roll

02 Elastic Bandage 5 x 450cm 2 rolls

03 Elastic Bandage 7.5 x 450cm 2 rolls

04 Adhesive Plasters 25 pcs

05 Sterile Gauze (7.5 x 7.5cm) 5 pcs

06 Sterile Gauze (5 x 5cm) 5 pcs

07 Soap Sachet 3 pcs

08 Cleansing Wipe 3 pcs

09 Alcohol Wipe 4 pcs

10 Antiseptic Wipe 3 pcs

11 Safety Pins 10 pcs

12 Gloves 2 pairs

13 Scissors 1 pair

14 Sterile Tweezers 1 pair

15 Cotton Wool Pack 4 pkts

16 Adhesive Dressing, 10 x 6 cm 1 pkt

17 Haemostatic Lancet 2 pcs

18 Triangular Bandage 1 pc

19 Compress Bandage 8 x 10cm 1 roll

20 ABS Box 1 pc

ESG58870



First Aid Kit Medium Size

Made of strong ABS plastic which is shiny, smooth and easy to clean. The kit contains a neoprene seal which makes the kit dustproof. The wall bracket is able to secure the kit on a common laboratory wall. The internal crystal partitions permit a more flexible and scientific item arrangement. Additionally, two swivel catches are set for closing security. Recommended use: small factories, labs, and etc.

Content List:

01 Soap Sachets 10pcs

02 Alcohol Pad 20pcs

03 Adhesive Plaster 100pcs

04 Boston 1pc

05 Conforming Bandage 5cm 3pcs

06 Conforming Bandage 7.5cm 2pcs

07 Elastic Bandage 2pcs

08 Sterile Eye Pad 5pcs

09 Sterile Gauze Pad 20pcs

10 Cotton Ball 5pkts

11 Safety Pin 10pcs

12 Triangular Bandages TNT 4pcs

13 Antiseptic Wipes 7pcs

14 Scissors 1pair

15 Tweezers 2pairs

16 Sterile Scalpel 1pc

17 Lancet 1pc

18 Syringe 1pc

19 Latex Gloves 6pairs

20 Plastic Kidney Dish 1pc

21 Eco Splints 22cm 1pc

22 Blanket 2pcs

23 Wound Dressing 1pc

24 Strap Tourniquets 1pc

25 Burn Sheet 2pcs

26 ABD Pad 2pcs

27 Ice Bag 1pc

28 CRP Mask 1pc

29 Adhesive Tape 3pcs

30 Plaster 1pc

31 First Aid booklet 1pc

32 ABS Box 1pc

ESG58871



First Aid Kit Class Room

The kit is plastic case, with handle and wall mounted • (1) First aid/burn cream, 0.9 gm. Packs, 10/box , for up to 50 persons and the first aid guide. The kit $\, \cdot \, (2)$ Latex free elastic bandage includes the following:

- (1) Extra large plastic case
- (125) Adhesive plastic bandages
- (6) Fingertip fabric bandages
- (6) Knuckle fabric bandages
- (10) Elbow & knee plastic bandages
- (8)Gauze dressing pads, (4) 2-pks
- (3) Trauma pads
- (8) Non stick pads
- (3) 2" Conforming gauze roll bandages
- (2) 3" Conforming gauze roll bandages
- (1) 40" Triangular sling/bandage, w/2 safety pins
- (30) BZK antiseptic towelettes

- (1) 1/2"x10 yd. First aid tape roll
- (2) 4"x5" Instant cold compress
- (1) 6"x9" Instant cold compress, 1/box
- (4) Sterile eye pads
- (2) Eye wash, 1/2 oz.
- (2) Exam quality vinyl gloves, 1 pair
- (1) Scissors
- (1) 4"Tweezers, plastic
- (2) Finger splints
- (1) One-way CPR face shield,2 exam quality vinyl gloves, 3 BZK antiseptic towelettes, 1set /box





School First Aid Room

Comprehensive school first aid room solution Contains 9 items to aid the delivery of first aid at school

Low level first aid couch designed for use with children

Compliant with HSE regulations

Include :

- 1. First Aid Room Contents
- 2. Low Level First Aid Couch
- 3. First Aid Sign
- 4. First Aid for Children Poster
- 5. Trolley, 3 Tier
- 6. Blanket, Scarlet Cotton
- 7. Polyester Filled Pillow
- 8. Metal Cabinet
- 9. Economy Couch Roll



The School First Aid Room contains the essential facilities for a school first aid room, including a first aid room sign, a first aid cabinet and a low level first aid couch designed for use with children.

The package provides 10% cost savings compared to purchasing each item individually.

Furniture Dimensions:

- Low Level First Aid Couch: 183cm x 60cm x 40cm
- Trolley, 3 Tier: 50cm x 30cm x 74cm
- Metal Cabinet: 60cm x 50cm x 12.5cm



















Everything you need to deal with everyday spills quickly and easily. The dispenser contains 4 identical spill kits, each capable of absorbing up to 1.5L

Design allows safer clean-up – less risk of injury Fully disposable kits for hygienic and safe disposal

Kits supplied in a dispenser that can be positioned in areas where spills are likely to occur

Each Kit contains:

2 pieces of (chemical multi-format) Protective gloves

- 1 disposable dustpan and brush
- 1 disposal bag
- 1 hazardous waste disposal label
- 1 bag tie

ESG58915



Mercury Collector

Spilled mercury is collected by pressing the foam pad in the screw top closure against the mercury. The mercury is drawn into and encapsulated in the pad by releasing the pressure and can then be released by screwing the closure on to the jar.

ESG58912



First Aid Poster For Children

Durable laminated poster with full colour illustrations User friendly text and clear step-by-step instructions for workplace first aid Ensure your employees are ready in an emergency Compiled by qualified health and safety practitioners and updated with the latest guidance Poster Dimensions: 60cm x 43cm (A2)

ESG58873



Chemical Spill Kit, 6 litre

Suitable for most non-aggressive chemical spills Available for spills up to 3.75 litres & up to 6 litres Durable Evolution hinged case, easy to transport to an incident Contains absorbent materials and disposal bag

ESG58914



Biohazard Kit

All in one biohazards and sharps solution Multi-use kit contains all necessary contents for cleaning up five body fluid spillages as well as two Single Sharps Disposal Packs Includes disinfectant spray absorbent granules and HypaClean Disposable Packs

ESG58875



Chemical Spills Poster

Durable laminated poster with full colour illustrations

User friendly text and clear step-by-step instructions for workplace first aid Ensure your employees are ready in an emergency

Compiled by qualified health and safety practitioners and updated with the latest guidance

Poster Dimensions: 60cm x 43cm (A2)





Emergency Shower Wall Mounted

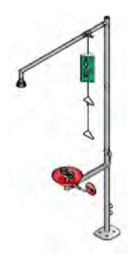
Body showers are indispensable where acids, steam, dust or other harmful substances are being handled.

Wall mounted straight Body shower, wall mounted with Self-draining shower head.

In brass with chemical resistant

Poly-coat.

Min. Working pressure: 1 BA



Emergency Shower With Eye Face Shower

Body and eye/face showers in one installation. Body and eye shower, Body shower with eye/face shower and bowl, modular. In brass and SS with

Chemical resistant red Poly-coat with self-draining shower head.

Eye wash with built-in FLOWFIX for regulation of water flow (26 l/Min). Bowl

in Stainless Steel with integrated outlet.

Min. Working pressure: 1.5 bar

ESG58887





Eye Wash Shower Double Wall Mounted

Reliable and efficient showers for eyes and face. Which Comply to EN15154-2 and ANSI Z358.1 norms and which Provide the following IMPROVED features:

SAFETY

- · Improved trigger lock
- Improved activation of the shower

OPERATION

- Stay-open dust cap
- · Light weight
- $\bullet \ Well-balanced \ construction$
- Better spray pattern

RELIABILITY

- Easy-to-clean spray head
- \bullet Anti-lime scale design and material choice
- Improved functionality
- Longer lifetime

Eye Wash Shower Double Table Mounted

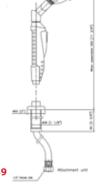
Reliable and efficient showers for eyes and face. Which comply to EN15154-2 and ANSI Z358.1 norms and which Provide the following IMPROVED features:

SAFETY

- Improved trigger lock
- Improved activation of the shower OPERATION
- Stay-open dust cap
- Light weight
- Well-balanced construction
- Better spray pattern

RELIABILITY

- Easy-to-clean spray head
- · Anti-lime scale design and material choice
- Improved functionality
- Longer lifetime



ESG58889

Emergency Shower Without Eye Face Shower

Body shower with eye/face shower and bowl, modular.

In brass and SS with chemical resistant red Poly-coat with self-draining shower head. Eye wash with built-in FLOWFIX for regulation of water flow (26 I/Min). Min. Working pressure: 1.5 bar.

ESG58888



Hazard tape:

Hazard warning tape. 66 meters long and 25mm wide

ESG58899 Corrosive Agents Tape

ESG58900 Environment Tape

ESG58901 Explosives Tape

ESG58902 Flammable Tape

ESG58903 Oxidising Tape

ESG58904 Toxicity Tape CAT 1-3

ESG58905 Toxicity Tape CAT 4

ESG58906 Gases Tape

ESG58907 Carcinogenic

ESG58908 Caution Radioactive Material Tape











Biohazard Bags Pack of one hundred

Non Sterile Disposable PP Bags and Disposable PE bags for a wide variety of uses throughout the laboratory

ESG58909



Resuscitation Poster

Durable laminated poster with full colour illustrations User friendly text and clear step-by-step instructions for workplace first aid Ensure your employees are ready in an emergency Compiled by qualified health and safety practitioners and updated with the latest guidance Poster Dimensions: 60cm x 43cm (A2)

ESG58879



Gauze Swab Non Sterile

Soft and breathable, folded edges, 19x15 mesh,, 8 Plies, PK/100.

ESG58917 Size: 5 x 5 cm ESG58918 Size: 7.5 X 7.5Cm ESG58919 Size: 10 x 10 cm



Cotton Wool Absorbent

100% cotton wool, hygienic purity with high absorbent capacity

ESG58916

Cotton Wool Non Absorbent



First Aid Arm

Train students in the proper techniques used to control severe bleeding: direct pressure, and pressure points. The Life/form® First Aid Arm provides extremely realistic appearance and function to make your training exercise true-to-life. Looks and feels like a real arm. Synthetic blood can be made to flow from either the cut on the forearm or from the severed thumb, or from both at the same time. The severed thumb allows training in proper care and handling of separated body members. You can regulate rate of bleeding and create venous or arterial flow. Blood returns to collection tray for reuse. Pressure points function realistically at wrist and upper arm. Students will need to react just as in an actual emergency and select the appropriate method to control bleeding and treat the wound. Includes vinyl arm with wound, severed thumb, collection tray, arterial pulse bulb, venous supply bag, one quart artifisal blood, teaching guide, and hard carry case

ESG59005



Child CPR Training Manikin

CPR manikin features:

- 1. Clear anatomic characteristic, realistic touch feeling and lifelike skin color, vivid appearance;
- 2. Simulate vital signs: squeeze the rubber ball to simulate carotid artery
- 3. Can perform artificial respiratory and extracardial compression;
- 4. Operation mode: CPR training, can perform compression and inflation; CPR screen functions:
- 1. Indicators show inflation volume, correct inflation volume: 150ml-200ml; When the inflation volume is insufficient, proper or excessive, indicators will accordingly be yellow, green or red, and alarm will ring if there are operation mistakes.
- 2. Operation frequency: ≥100 times/ min
- 3. Ratio of compression and artificial respiratory: 30:2/single or 15:2/
- 4. Operation cycle: after 2 valid inflation, then 5 cycles CPR operation according to the ratio of compression and inflation 30:2 or 15:2;
- 5. Power: 220V; 6V output powder via manostat; or use 4pcs 1 battery for field trainingE

New Born CPR Training Manikin

CPR manikin features:

- 1. Clear anatomic characteristic, realistic touch feeling and lifelike skin color, vivid appearance;
- 2. Simulate vital signs: squeeze the rubber ball to simulate brachial artery
- 3. Can perform artificial respiratory, extracardial compression and airway open:
- 4. Operation mode: CPR training, can perform compression and inflation; CPR screen functions:
- 1. Indicators show inflation volume, correct inflation volume: 150ml-200ml:

When the inflation volume is insufficient, proper or excessive, indicators will accordingly be yellow, green or

red, and alarm will ring if there are operation mistakes.

2. Indicators show compression depth: correct compression depth: approximately4 cm

When the compression depth is insufficient, proper or excessive, indicators will accordingly be yellow, green or red, and alarm will ring if there are operation mistakes.

- 3. Operation frequency: ≥100 times/ min.
- 4. Ratio of compression and artificial respiratory: 30:2/single or 15:2/
- 5. Operation cycle: after 2 valid inflation, then 5 cycles CPR operation according to the ratio of compression and inflation 30:2 or 15:2;
- 6. Power: 220V; 6V output powder via manostat; or use 4pcs 1 battery for field training

ESO67289



- and external cardiac compression
- 3. While performing artificial aspiration, judge inflation volume by chest rise:
- 4. External chest compression, correct compression depth: 5-6cm
- 1) Correct compression site, yellow indicator
- 2) Proper compression depth, green indicator
- 3) Excessive compression depth, red indicator
- 5. Operation frequency: ≥100 times/min, with "tick" sound

Tel: +44 (0)203 8685740

6. Power: battery

ESO64729

ESO67139









Half-body CPR Training Manikin with Obstruction

The product can operate adult Heimlich maneuver. The Simulate manikin is designed according to the anatomy and physiological characteristics and fit for first aid for foreign body in the airway. Features:

- 1. Simulation of normal airway obstruction
- 2. Simulation of airway opening and chest compression
- 3. Simulation of the chest expansion when the airway is empty
- 4. Simulation of suffocation, foreign body obstruction in airway



ESO64727

CPR Training Manikin Half-body Basic Economy

according to 2015 international CPR standard,

Implement standard: AHA (American Heart Association) 2015 guideline for CPR and ECC

CPR manikin features:

- 1. Can perform airway open
- 2. Can perform artificial breathing and external cardiac compression
- 3. While performing artificial aspiration, judge inflation volume by chest
- 4. External chest compression, correct compression depth:5-6cm
- 1) Correct compression site, prompt correct buzzing sound
- 2) Excessive compression site, prompt alarming buzzing sound
- 5. Operation frequency: ≥100 times/min, with "tick" sound
- 6. Power: battery

ESO64733

AED Simulator and CPR Manikin Set

This manikin is suitable for BLS (Basic Life support) and AED (Automated External Defibrillator) training.

Features of AED Simulator

- 1. Opening or closing the cover will turn on AED instrument.
- 2. Simulate first-aid procedure; (only for training use) it has not high tension shock motion.
- 3. Automatically check the position of electrode pad.
- 4. There are 9 internal scripts, simulating different conditions.
- 5. Simulate: touch the patient's body when conducting AED; the position of electrode pad is wrong or

right; it is need to defibrillate or not; machine has trouble; the electricity is low.

6. Electricity management function: The system automatically checks the batteries electricity. When

the electricity is low, there will be sound indicating. During the interval of two times, system will enter

saving power mode. If there isn't operation in 3 minutes, system will enter waiting mode.

7. Lithium battery

Features of half-body CPR manikin:

- 1. Simulate airway opening
- 2. External breast compression: sound prompting
- 3. Artificial respiration: observe the fluctuation of chest (Inhalation standard: 500/600ml-1000ml)
- 4. Operation frequency: 100 times per minute (the latest international standard)
- 5. Operation mode: exercise mode

ESO64728

Adult Tracheotomy Care Simulator

Features:

1. Precise anatomy: pharynx, epiglottis, trachea, esophagus, position of tracheotomy, cricoid and left, right

bronchial trees

- 2. Tracheotomy care
- 3. Sputum suction
- 4. Suction via oral cavity
- 5. Clean and care of tracheal cannula

ESO65418









Trauma Moulage Kit

Can be used with any Rescue manikin, the Trauma Manikin.

Application of these realistic bleeding moulages to a full-body manikin facilitates quick identification,

diagnosis, and dressing of wounds by trainees. Kit includes compound fractures, contusions,

lacerations, evisceration, sucking chest wound, impalement, crushed foot, jaw wound,

and projectile entry and exit of arm. These bleeding wounds strap on and are complete with

pump assembly. Simulated blood is included. Non-bleeding strap-on wounds include 2nd and 3rd degree

burns of the chest, back, forearm, and face. Manikin sold separately.

ESG59014

Multiple Casualty Simulation Kit

More versatile than the basic kit, this unit gives you more complex wounds for

testing higher levels of skill in bandaging and patient care, while keeping

expenditures low.

Contents:

Bleeding strap-on wounds complete with reservoir bags with pump assembly

- 1 open amputation
- 1 compound fracture of tibia, lower leg
- 1 compound fracture of humerus, upper arm
- 1 sucking wound of chest
- 1 gunshot wound of palm

Makeup Accessories:

1 bottle coagulant makeup blood ; 3 spatulas ; 1 pkg. of methyl cellulose for blood thickening ; 3 wood tongue depressors ; 3 packages powder to make three gallons of simulated blood ; 1 casualty simulation wax ; 1 body adhesive for stick-on wounds ; 1 atomizer mist sprayer ; 24 assorted stick-on lacerations and open fracture wounds ; 1 pkg. broken Plexiglas® for simulating glass embedded wound ; 1 ea. grease paint colors: white, blue, brown, and red ; Size: 21 in. x 12 in. x 10 in.



Basic Casualty Simulation Kit

The most economical way to get started in simulated injuries. Reusable wounds and

refillable accessories let you practice bandaging and splinting techniques repeatedly.

Contents:

- 1 compound fracture tibia complete with reservoir and pump assembly
- 1 Bottle coagulant makeup blood
- 1 Pkg. powder to make 1 gal. simulated blood
- 12 Assorted stick-on lacerations and open fracture wounds
- 1 Casualty simulation wax
- 1 Pkg. broken Plexiglas® for simulating glass embedded wound
- 1 ea. grease paint colors: white, blue, brown and red
- 1 Body adhesive for stick-on wounds
- 1 Atomizer mist sprayer
- 3 Spatulas
- 3 Tongue depressors
- 1 pkg. of methyl cellulose for blood thickening
- Size: 15 in. x 10 in. x 5 in.



ADVANCE TRAUMA SIMULATOR

Manikin Features:

- 1. Washing, disinfection, hemostasia, enswathement, etc.
- 2. Open fracture, truncation trauma

Trauma Features:

- 1. Facial burn: I, II, III degree
- 2. Laceration in forehead
- 3. The wound in jaw
- 4. Opened clavicular fracture and contusion, wound on the chest
- 5. The wound in abdomen with small intension evisceration ntusion wounds in left ankle and foot.
- 6. Opened humerus fracture of right upper arm
- 7. Opened fracture of right hand (including parenchyma , laceration, fracture and bone tissue
- 8. Gun wound in the right palm
- 9. Opened fracture of right thighbone
- 10. Compound femur fracture of left thigh
- 11. Metal pricking wound in right thigh
- 12. Opened tibia fracture of right leg
- 13. Opened fracture of right foot with truncating trauma on small phalanx
- 14. Burns in left forearm: I, II, III degree
- 15. Truncating trauma on left thigh
- 16. Closed tibia fracture of right leg and co

ESO64723







Breast Examination Simulator

Features:

Palpation of malignant tumor, benign tumor, lymphaden and lobulus accrementition.

Size: 37cm*18.5cm*29.5cm G.W.:4kg

ESO64757

Advanced Inspection and Palpation of Breast Simulator

Features:

- 1. This model can be used to exercise mammary tumors palpation skill.
- 2. In order to facilitate training process, we implant benign tumors and malignant tumors into the

mammary gland.

3. Basing on various position, size, texture, the students can identify the tumor is benign or malignant.

ESO64759







Pharmacy & Lab Refrigerator (+25/2C)

Temperature setting range +2 to +15 °C
Gas: environmentally friendly R290 gas
Exterior: White skinplate metal sheet
Interior: Stainless steel AISI 304 for perfect highiene
CE certified. Company have ISO 9001:2015 certification
2 year warranty on parts
Forced air cooling circulation
Automatic defrost
Extra probe for product temperature simulation
Inbuilt data logger, that creates a pdf file with temperature
graphics and alarms.USB for data retrieval
Battery back up to keep controller and alarms working for

at least 26 hours after power failure Safety thermostat to prevent temperatures to go below 2 degrees.

SKU NO	Ext.Dimn.	Int.Dimn.	NO. Shelves	Vol
ESG59027	W600 x D600 x H835 mm	W480 x D410 x H690 mm	2 + 1	122 Ltr
ESG59028	W600 x D700 x H1510 mm	W480 x D500 x H1358 mm	5	324 Ltr
ESG59029	W600 x D700 x H1865 mm	W480 x D500 x H1724 mm	5	416 Ltr
ESG59030	W720 x D840 x H2020 mm	W560 x D665 x H1440 mm	4	535 Ltr
ESG59031	W1440 x D840 x H2020 mm	W1255 x D665 x H1440 mm	8	1225 Ltr









Pharmacy & Lab Refrigerator (+25/2C) Glass Door

Temperature setting range +2 to +15 °C Gas: environmentally friendly R290 gas

Exterior: White skinplate metal sheet

Interior: Stainless steel AISI 304 for perfect highiene CE certified. Company have ISO 9001:2015 certification

2 year warranty on parts

Forced air cooling circulation

Automatic defrost

Extra probe for product temperature simulation

Inbuilt data logger, that creates a pdf file with temperature graphics and alarms.

USB for data retrieval

Battery back up to keep controller and alarms working for at least 26 hours after power failure

Safety thermostat to prevent temperatures to go below 2 degrees.

SKU NO	Ext.Dimn.	Int.Dimn.	NO. Shelves	Vol
ESG59027G	W600 x D600 x H835 mm	W480 x D410 x H690 mm	2 + 1	122 Ltr
ESG59028G	W600 x D700 x H1510 mm	W480 x D500 x H1358 mm	5	324 Ltr
ESG59029G	W600 x D700 x H1865 mm	W480 x D500 x H1724 mm	5	416 Ltr
ESG59030G	W720 x D840 x H2020 mm	W560 x D665 x H1440 mm	4	535 Ltr
ESG59031G	W1440 x D840 x H2020 mm	W1255 x D665 x H1440 mm	8	1225 Ltr

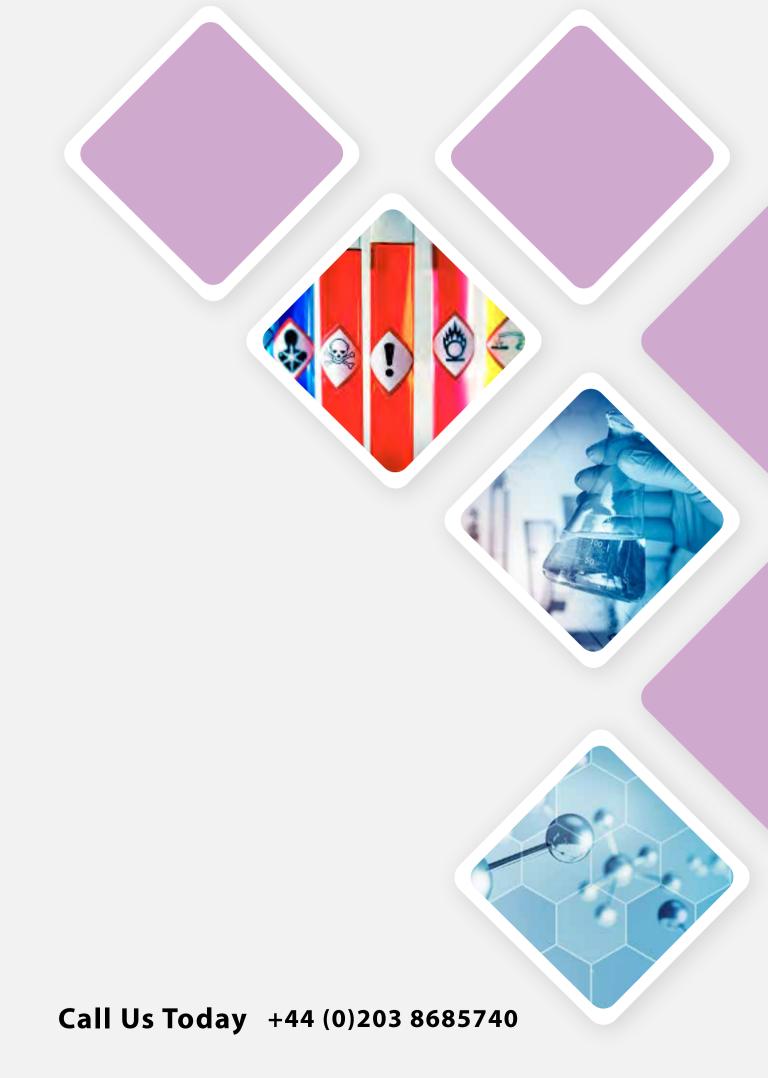




EduScience UK



We Contribute To Future Education



EUROLAB CHEMICALS

- · In-house chemist & laboratory
- · Range of grades to suit all budgets & requirements
- · 26 years manfacturing experience
- Own recipes for many reagents
- · High quality bottles, if possible UN approved
- · Safety first bagged in case of carrier damage
- · MSDS automatically emailed & online
- · Clear & compliant labeling

CLP

On 20th January 2009 the CLP element of REACH, European Regulation (EC) No 1272/2008 came into force concerning Classification, Labelling and Packaging (CLP) of chemical substances. It is based upon the UN Globally Harmonized System of Classification and Labelling of Chemicals (GHS) and ensures worldwide uniformity.

What does this mean?

As of 1st December 2010 all substances supplied with the E.U. are now classified and labelled in accordance with the new regulations. The familiar orange hazard symbols have been replaced with the GHS Pictograms shown opposite. Risk and Safety phrases were also replaced, with Hazard and Precautionary statements, as shown on pages 423 and 424.

ADR & LQ

European Agreement concerning the international carriage of Dangerous goods by Road (ADR). If a substance is classified as hazardous for transport it will be assigned a UN number, this dictates the regulations that have to be applied when the substance is transported. Each UN number is assigned a "Limited Quantity" (LQ) which indicates the maximum pack size of a substance that can be transported without special restrictions. If the LQ is zero, or the pack size exceeds the LQ, then the substance must be transported by a specially trained and licensed courier.

What does this mean for you...?

If over the limited quantity (LQ) there is a £14.95 surcharge per order. The cost to us can be as much as £30.00 and as such we are absorbing a large proportion of this cost. In recognition of those customers placing larger orders we will absorb the whole cost, so there is no surcharge on orders over £300.00

Chemicals are clearly marked 15 if a surcharge is applicable. Our next day delivery service is not available when shipping ADR chemcials.

What's New?

From June 2015 the restrictions on some chemicals have changed, namely the flamable substances, e.g. IMS & Acetone. Consequently, where possible, we have changed our pack sizes to comply with the new LQ restriction of 1L to avoid the need for specialist transport and thus the £14.95 surcharge.

Permits

A permit is required by law to purchase certain chemicals. Denatured Alcohol (IDA) aka Methylated Spirit is one such chemical. You only require a permit if purchasing more than 5 litres per annum. However as part of our licencing complaince we require a declaration that no more than 5L will be purchased.

MSDS

Material Safety Data Sheets (MSDS) provide information on chemicals that help the users of those chemicals to make a risk assessment. They describe the hazards the chemical presents, and give information on handling, storage and emergency measures in case of accident.

Here at Breckland Scientific we take our responsibility very seriously so have invested in an automated system which will provide you with up-to-date Safety Data Sheets via e-mail when despatched. They are also available on our website.



- Product Name
- Alternative Name(s)
- Chemical Formula
- GHS Pictograms

These are located on the chemical bottle.

Flash Point

The flash point, where available, is here. The flash point of a volatile liquid is the lowest temperature at which its vapours form an ignitable mixture in air.

UN Class / UN Number / Packing Group

Dangerous goods are divided into 9 UN Classes and several sub-divisions UN numbers are the 4 digits that identify the substance.

Packing Group refers to the degree of danger:

PG-1 = High Danger PG-2 = Medium Danger PG-3 = Low Danger

Class 1 Explosive Class 5.1 Oxidising Agent
Class 2 Gases Class 5.2 Organic Peroxides
Class 3 Flammable Liquids Class 6.1 Poisonous
Class 4.1 Flammable Solids Class 7 Radioactive
Class 4.2 Spontaneously Combustible Class 8 Corrosive

Class 4.3 Dangerous when Wet Class 9 Misc. Dangerous Substance

Cas No

Chemical identifier as defined by the American Chemical Society

Hazard & Precautionary Statement Numbers

Health & safety statements for the specific chemical. Absence of any statements does NOT always mean the substance is harmless. See pages ix and x for definitions of the Hazard & Precatutionary Statement numbers.

Molecular Weight

- 10 EC No.
- Chemical identifier as defined by the European Chemicals Agency (ECHA)

11 Index No.

Is the identification code given to the substance in Part 3 of Annex VI of the Classification, Labelling and Packaging of Substances and Mixtures (CLP) Regulation (EC) No 1272/2008

Signal Word

If the chemical has a more severe hazard, the label includes the signal word 'Danger'; in case of less severe hazards, the signal word is 'Warning'

- Catalogue No.
- **Type**
- **Assav**

The Assay is the quality or purity of a product. This is often linked to the type of the chemical (above).

16 Info

If a delivery surcharge is applicable it is clearly marked.



вох	LABEL	6	DESCRIPTION		4
ADR	LQ (Limited Quantity)	UN CLASS	OF DANGER	CATEGORY	GHS PICTOGRAM (On Bottle)
no transport a ll owed		1	Unstable explosives		GHS01
	\Diamond	1	Explosives of Divisions 1.1, 1.2, 1.3, 1.4		GHS01
		1	Self reactive substances and mixtures	A, B	GHS01
	\Diamond	1	Organic Peroxide	A, B	GHS01
		2	Flammable gases	1	GHS02
		2	Flammable aerosols categories	1, 2	GHS02
		2	Gases under pressure		GHS04
		3	Flammable liquids	1, 2, 3	GHS02
		3	Pyrophoric liquids	1	GHS02
		4.1	Flammable solids	1, 2	GHS02
		4.1	Self-reactive substances and mixtures	B,C,D,E,F	GHS02
		4.2	Pyrophoric solids	1	GHS02
		4.2	Self-heating substances and mixtures	1,2	GHS02
		4.3	Substances and mixtures which in contact with water emit flammable gases	1,2,3	GHS02
8		5.1	Oxidising gases	1	GHS03
8		5.1	Oxidising liquids	1,2,3	GHS03
8		5.1	Oxidising solids	1,2,3	GHS03

BOX LABEL		6			4
ADR	LQ (Limited Quantity)	UN CLASS	DESCRIPTION OF DANGER	CATEGORY	GHS PICTOGRAM (On Bottle)
<u>**</u>	\Diamond	5.2	Organic peroxides	B,C,D,E,F	GHS02
	\Diamond	6.1	Acute toxicity (oral, dermal, inhalation)	1, 2, 3	GHS06
		6.1	Acute toxicity (oral, dermal, inhalation)	4	GHS07
		6.1	Skin irritation	2	GHS07
	\Diamond	8	Corrosive to metals	1	GHS05
	\Diamond	8	Skin corrosion	1A, 1B, 1C	GHS05
	\Diamond	8	Serious eye damage	1	GHS05
		n/a	Eye irritation	2	GHS07
		n/a	Skin sensation	1	GHS07
		n/a	Specific Target Organ Toxicity - Single exposure	3	GHS07
	\Diamond	n/a	Respiratory sensitisation	1	GHS08
	\Diamond	n/a	Germ ce ll mutagenicity	1A, 1B, 2	GHS08
	\Diamond	n/a	Carcinogenicity	1A, 1B, 2	GHS08
	$ \diamondsuit $	n/a	Reproductive toxicity	1A, 1B, 2	GHS08
		n/a	Specific Target Organ Toxicity - Single exposure	1, 2	GHS08
		n/a	Aspiration hazard	1	GHS08
		n/a	Environmenta l ly hazardous	1, 2 ,3	GHS09

	HAZARD STATEMENTS - Physical Hazards				
H200	Unstable explosives.				
H201	Explosive; mass explosion hazard.				
H202	Explosive, severe projection hazard.				
H203	Explosive; fire, blast or projection hazard.				
H204	Fire or projection hazard.				
H205	May mass explode in fire.				
H220	Extremely flammable gas.				
H221	Flammable gas.				
H222	Extremely flammable aerosol.				
H223	Flammable aerosol.				
H224	Extremely flammable liquid and vapour.				
H225	Highly flammable liquid and vapour.				
H226	Flammable liquid and vapour.				
H228	Flammable solid.				
H240	Heating may cause an explosion.				
H241	Heating may cause a fire or explosion.				
H242	Heating may cause a fire.				
H250	Catches fire spontaneously if exposed to air.				
H251	Self-heating: may catch fire.				
H252	Self-heating in large quantities; may catch fire.				
H260	In contact with water releases flammable gases which may				
	ignite spontaneously.				
H261	In contact with water releases flammable gases.				
H270	May cause or intensify fire; oxidiser.				
H271	May cause fire or explosion; strong oxidiser.				
H272	May intensify fire; oxidiser.				
H280	Contains gas under pressure; may explode if heated.				
H281	Contains refrigerated gas; may cause cryogenic burns or injury.				
H290	May be corrosive to metals.				

	HAZARD STATEMENTS - Health Hazards	
H300	Fatal if swallowed.	
H301 Toxic if swallowed.		
H302	Harmful if swallowed.	
H304	May be fatal if swallowed and enters airways.	
H310	Fatal in contact with skin.	
H311	Toxic in contact with skin.	
H312	Harmful in contact with skin.	
H314	Causes severe skin burns and eye damage.	
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H318	Causes serious eye damage.	
H319	Causes serious eye irritation.	
H330	Fatal if inhaled.	
H331	Toxic if inhaled.	
H332	Harmful if inhaled.	
H334	May cause allergy or asthma symptoms or breathing	
	difficulties if inhaled.	
H335	May cause respiratory irritation.	
H336	May cause drowsiness or dizziness.	
H340	May cause genetic defects.	
H341	Suspected of causing genetic defects.	
H350	May cause cancer.	
H351	Suspected of causing cancer.	
H360 May damage fertility or the unborn child <state effe<="" specific="" td=""></state>		
	if known.	
H361	Suspected of damaging fertility or the unborn child.	
H362	May cause harm to breast-fed children.	
H370	Causes damage to organs.	
H371	May cause damage to organs.	
H372	Causes damage to organs.	
H373	May cause damage to organs through prolonged or repeated	
	exposure.	
H400	Very toxic to aquatic life.	
H410	Very toxic to aquatic life with long lasting effects.	
H411	Toxic to aquatic life with long lasting effects.	
H412	Harmful to aquatic life with long lasting effects.	
H413	May cause long lasting harmful effects to aquatic life.	

	Additional EU Hazard Classes		
EUH001	Explosive when dry.		
EUH006	Explosive with or without contact with air.		
EUH014 Reacts violently with water.			
EUH018	In use may form flammable/explosive vapour-air mixture.		
EUH019	May form explosive peroxides.		
EUH029	Contact with water liberates toxic gas.		
EUH031	Contact with acids liberates toxic gas.		
EUH032	Contact with acids liberates very toxic gas.		
EUH044	Risk of explosion if heated under confinement.		
EUH059	Hazardous to the ozone layer.		
EUH066	Repeated exposure may cause skin dryness or cracking.		
EUH070	Toxic by eye contact.		
EUH071	Corrosive to the respiratory tract.		
EUH201	Contains lead. Should not be used on surfaces liable to be		
	chewed or sucked by children.		
EUH201A	Warning! Contains lead.		
EUH202 Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Ke			
out of the reach of children.			
EUH203	Contains chromium (VI). May produce an allergic reaction.		
EUH204	Contains isocyanates. May produce an allergic reaction.		
EUH205	Contains epoxy constituents. May produce an allergic reaction.		
EUH206	Warning! Do not use together with other products. May		
	release dangerous gases (chlorine).		
EUH207	Warning! Contains cadmium. Dangerous fumes are formed		
	during use. See information supplied by the manufacturer.		
	Comply with the safety instructions.		
EUH208	Contains <name of="" sensitising="" substance="">. May produce an</name>		
	allergic reaction.		
EUH209	Can become highly flammable in use.		
EUH209A	Can become flammable in use.		
EUH210	Safety data sheet available on request.		
EUH401 To avoid risks to human health and the environment, comply			
	with the instructions for use.		

PRECAUTIONARY STATEMENTS - General				
P101	If medical advice is needed, have product container or label			
	at hand.			
P102	Keep out of reach of children.			

	PRECAUTIONARY STATEMENTS - Prevention
P103	Read label before use.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
P211	Do not spray on an open flame or other ignition source.
P220	Keep/Store away from clothing//combustible materials.
P221	Take any precaution to avoid mixing with combustibles
P222	Do not allow contact with air.
P223	Keep away from any possible contact with water, because of
	violent reaction and possible flash fire.
P230	Keep wetted with
P231	Handle under inert gas.
P231+P232	Handle under inert gas. Protect from moisture.
P232 Protect from moisture.	
P233 Keep container tightly closed.	
P234 Keep only in original container.	
P235	Keep cool.
P235+P410	Keep cool. Protect from sunlight.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting//
	equipment.
P242	Use only non-sparking tools.
P243 Take precautionary measures against static discharge.	
P244 Keep reduction valves free from grease and oil.	
P250	Do not subject to grinding/shock//friction.
P251	Pressurized container: Do not pierce or burn, even after use.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.



	PRECAUTIONARY STATEMENTS - Prevention
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P262	Do not get in eyes, on skin, or on clothing.
P263	Avoid contact during pregnancy/while nursing.
P264	Wash thoroughly after handling.
P270	Do no eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of
	the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/
	face protection.
P281	Use personal protective equipment as required.
P282	Wear cold insulating gloves/face shield/eye protection.
P283	Wear fire/flame resistant/retardant clothing.
P284	Wear respiratory protection.
P285	In case of inadequate ventilation wear respiratory
	protection.
	PRECAUTIONARY STATEMENTS - Response

	P285	In case of inadequate ventilation wear respiratory protection.
I		PRECAUTIONARY STATEMENTS - Response
ŀ		•
ŀ	P301	IF SWALLOWED:
	P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or
ł	D201+D212	doctor/physician. IF SWALLOWED: Call a POISON CENTER or doctor/physician
	F301+F312	if you feel unwell.
ł	P301+ IF	SWALLOWED: rinse mouth. Do NOT induce vomiting.
ł	P330+P331	CTV LECTVED. THIS HOURT. DO ITO I HOUSE VOITHLING.
	P302	IF ON SKIN:
ł		IF ON SKIN: Immerse in cool water/wrap in wet bandages.
Ì		IF ON SKIN: Gently wash with plenty of soap and water.
Ì		IF ON SKIN: Wash with plenty of soap and water.
Ì	P303	IF ON SKIN (or hair):
Ì	P303+	IF ON SKIN (or hair): Remove/Take off immediately all
Ì	P361+P353	contaminated clothing. Rinse skin with water/shower.
Ì	P304	IF INHALED:
ſ	P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a
		position comfortable for breathing.
	P304+P341	IF INHALED: If breathing is difficult, remove victim to fresh
ļ		air and keep at rest in a position comfortable for breathing.
ļ	P305	IF IN EYES:
	P305+	
	P351+P338	IF IN EYES: Rinse cautiously with water for several minutes.
ŀ	Booo	Remove contact lenses, if present and easy to do. Continue rinsing
ł	P306	IF ON CLOTHING:
	P306+P360	IF ON CLOTHING: rinse immediately contaminated clothing
ł	P307	and skin with plenty of water before removing clothes. IF exposed:
ł		IF exposed: Call a POISON CENTER or doctor/physician.
ł	P308	IF exposed or concerned:
ł		IF exposed or concerned: Get medical advice/attention.
ł	P309	IF exposed or if you feel unwell:
Ì		IF exposed or if you feel unwell: Call a POISON CENTER or
		doctor/physician.
Ì	P310	Immediately call a POISON CENTER or doctor/physician.
Ì	P311	Call a POISON CENTER or doctor/physician.
ſ	P312	Call a POISON CENTER or doctor/physician if you feel
		unwell.
l	P313	Get medical advice/attention.
l	P314	Get medical advice/attention if you feel unwell.
l	P315	Get immediate medical advice/attention.
ļ	P320	Specific treatment is urgent (see on this label).
ļ	P321	Specific treatment (see on this label).
ļ	P322	Specific measures (see on this label).
ŀ	P330	Rinse mouth.
ŀ	P331	Do NOT induce vomiting.
-	P332	If skin irritation occurs:
-		If skin irritation occurs: Get medical advice/attention.
1	P333	If skin irritation or rash occurs:
		If skin irritation or rash occurs: Get medical advice/ attention.
	P334	Immerse in cool water/wrap in wet bandages.
-1	D225	Druch off laces partiales from akin

	PRECAUTIONARY STATEMENTS - Response
P335+P334	Brush off loose particles from skin. Immerse in cool water/
	wrap in wet bandages.
P336	Thaw frosted parts with lukewarm water. Do no rub affected area.
P337	If eye irritation persists:
P337+P313	If eye irritation persists: Get medical advice/attention.
P338	Remove contact lenses, if present and easy to do. Continue
	rinsing.
P340	Remove victim to fresh air and keep at rest in a position
	comfortable for breathing.
P341	If breathing is difficult, remove victim to fresh air and keep
	at rest in a position comfortable for breathing.
P342	If experiencing respiratory symptoms:
P342+P311	If experiencing respiratory symptoms: Call a POISON
	CENTER or doctor/physician.
P350	Gently wash with plenty of soap and water.
P351	Rinse cautiously with water for several minutes.
P352	Wash with plenty of soap and water.
P353	Rinse skin with water/shower.
P360	Rinse immediately contaminated clothing and skin with
	plenty of water before removing clothes.
P361	Remove/Take off immediately all contaminated clothing.
P362	Take off contaminated clothing and wash before reuse.
P363	Wash contaminated clothing before reuse.
P370	In case of fire:
	In case of fire: Stop leak if safe to do so.
	In case of fire: Use for extinction.
	In case of fire: Evacuate area.
P370+	In case of fire: Evacuate area. Fight fire remotely due to the
P380+P375	risk of explosion.
P371	In case of major fire and large quantities:
P371+	In case of major fire and large quantities: Evacuate area.
	Fight fire remotely due to the risk of explosion.
P372	Explosion risk in case of fire.
P373	DO NOT fight fire when fire reaches explosives.
P374	Fight fire with normal precautions from a reasonable
	distance.
P375	Fight fire remotely due to the risk of explosion.
P376	Stop leak if safe to do so.
	eaking gas fire:Do not extinguish,unless leak can be stopped safely.
P378	Use for extinction.
P380	Evacuate area.
P381	Eliminate all ignition sources if safe to do so.
P390	Absorb spillage to prevent material damage.
P391	Collect spillage.

PRECAUTIONARY STATEMENTS - Storage				
P401	Store			
P402	Store in a dry place.			
P402+P404	Store in a dry place. Store in a closed container.			
P403	Store in a well-ventilated place.			
P403+P233	Store in a well-ventilated place. Keep container tightly closed.			
P403+P235	Store in a well-ventilated place. Keep cool.			
P404	Store in a closed container.			
P405	Store locked up.			
P406	Store in corrosive resistant/ container with a resistant			
	inner liner.			
P407	Maintain air gap between stacks/pallets.			
P410	Protect from sunlight.			
P410+P403	Protect from sunlight. Store in a well-ventilated place.			
P410+P412 Protect from sunlight. Do no expose to temperatures				
	exceeding 50°C/ 122°F.			
P411	Store at temperatures not exceeding °C/ °F.			
P411+P235	Store at temperatures not exceeding °C/ °F. Keep cool.			
P412	Do not expose to temperatures exceeding 50°C/ 122°F.			
P413	Store bulk masses greater than kg/ lbs at temperatures			
	not exceeding°C/°F.			
P420	Store away from other materials.			
P422	Store contents under			
P501	Dispose of contents/container to			



P335

Brush off loose particles from skin.

ACACIA POWDER (GUM ARABIC)

N/A



UN Class: N/A EC No.: 232-519-5
Cas No.: 9000-01-5 Index No.: Not listed

Hazard: H318

Precaution: P280 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC54794	⊉ surolad	99%		100g

ACETIC ACID 1.0M (1.0N) (ETHANOIC ACID)

UN Class: N/A EC No.: 200-580-7
Cas No.: 64-19-7 Index No.: 607-002-00-6

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC54805	⊈ surciad	98%	Std solution	2.5L

ACETALDEHYDE (ETHANAL)

 $CH_3CHO = 44.05g/mol$



 UN Class: 3 /UN1089 PG-I
 EC No.: 200-836-8
 Danger

 Cas No.: 75-07-0
 Index No.: 605-003-00-6

Hazard: H224 H319 H335 H351

Precaution: P210 P261 P281 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC54795	⊈ surplad	98%	SURCHARGE	500 ml

ACETIC ANHYDRIDE (ETHANOIC ANHYDRIDE)

(CH₃CO)₂O = 102.09g/mol



Danger

Hazard: H314 H314 H226 H302 H332

Precaution: P280 P305+P351+P338 P261 P304+P340+P310

P303+P361+P353 P370+P378

Cat No.	Grade	Assay	Info.	Per
ESC54806	⊈ surolad	97%		500ml

ACETAMIDE (ETHANAMIDE)

 Ch_3 . CO. $NH_2 = 59.07 g/mol$



 UN Class: N/A
 EC No.: 200-473-5
 Warning

 Cas No.: 60-35-5
 Index No.: 616-022-004

Hazard: H351 Precaution: P281

Cat No.	Grade	Assay	Info.	Per
ESC54798	⊉ surplad	97%		100g

ACETONE (PROPANONE)

 $(CH_3)_2CO = 58.08g/mol$



 UN Class: 3 /UN1090 PG-II
 EC No.: 200-662-2

 Cas No.: 67-64-1
 Index No.: 606-001-00-8

Hazard: H225 H319 H336

Precaution: P210 P305+P351+P338 P261

Cat No.	Grade	Assay	into.	Per
ESC54807	⊈ surotad	99%		2.5L

ACETANILIDE (N-PHENYLACETAMIDE)

 C_6H_5 . NH . CO . $CH_3 = 135.17g/mol$



 UN Class: N/A
 EC No.: 203-150-7
 Warning

 Cas No.: 103-84-4
 Index No.: Not listed

Hazard: H315 H319

Precaution: P305+P351+P338 P301+P312 P280

Cat No.	Grade	Assay	Info.	Per
ESC54801	⊈ eurolad	98%		100g

ACETONITRILE (CYANOMETHANE)

 CH_3CN = 41.05g/mol



Hazard: H225 H319 H302 H312 H332

Precaution: P210 P280 P305+P351+P338 P309+P310

Cat No.	Grade	Assay	Info.	Per
ESC54810	⊉ surotad	98%		2.5L

ACETIC ACID GLACIAL (ETHANOIC ACID)

 $CH_3COOH = 60.05g/mol$



 UN Class:
 8(3) /UN2789 PG-II
 EC No.: 200-580-7
 Danger

 Cas No.:
 64-19-7
 Index No.: 607-002-00-6

Hazard: H226 H314

Precaution: P280 P305+P351+P338 P310

Cat No.	Grade	Assay	Info.	Per
ESC54804	⊈ surciad	99.5%		1L

ACETYL CHLORIDE (ETHANOYL CHLORIDE)

CH₃COCl = 78.5g/mol



 UN Class: 3(8) /UN1717 PG-II
 EC No.: 200-865-6

 Cas No.: 75-36-5
 Index No.: 607-011-00-5

Hazard: H225 H314 EUH014

Precaution: P210 P280 P305+P351+P338 P310

Cat No.	Grade	Assay	Info.	Per
ESC54813	⊈ surolad	98%		500ml





O-ACETYLSALICYLIC ACID (2-(ACETOXY)-BENZOIC ACID)

 $C_9H_8O_4 = 180.16g/mol$



 UN Class: N/A
 EC No.: 200-064-1
 Warning

 Cas No.: 50-78-2
 Index No.: Not listed

Hazard: H302 H315 H319 H335 Precaution: P261 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC54814	≜ surotad	99.5%		100g

L-ALANINE ((S)-2-AMINOPROPIONIC ACID)

CH₃CH(NH₂)COOH = 89.09g/mol

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55464	⊈ surplad	98%		25g

ADENOSINE-5-TRIPHOSPHORIC ACID (A.T.P.)

 $C_{10}H_{14}N_5Na_2O_{13}P_3\ .\ 3H_2O=605.19g/mol$

 UN Class: N/A
 EC No.: 213-579-1

 Cas No.: 34369-07-8
 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC54815	⊈ surciad	98%		5g

ALBUMEN EGG POWDER (EGG WHITE)

UN Class: N/A EC No.: 292-692-7
Cas No.: 9006-59-1 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC54822	⊈ surciad	Protein >80%		250g

ADIPIC ACID (HEXANEDIOIC ACID)

HOOC(CH₂)₄COOH = 146.14g/mol



UN Class: N/A EC No.: 204-673-3 Warning

Cas No.: 124-04-9 Index No.: 607-144-00-9

Hazard: H319

Precaution: P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC54816	⊈ surolad	99%		250g

ALIZARIN RED S C.I.58005 (1,2-DIHYDROXYANTHRAQUINONE)

 $C_{14}H_7NaO_7S = 342.3g/mol$

UN Class: N/A **EC No.**: 204-981-8 Warning

Cas No.: 130-22-3 Index No.: Not listed

Hazard: H315 H319 H335

Precaution: P261 P305+P351+P338 P280 P302+P352 P304+P340

Notes: Yellow to orange red

Cat No.	Grade	Assay	Info.	Per
ESC54823	⊈ surotad	> 98%	pH 4.0-6.0	100g

AGAR POWDER

 UN Class: N/A
 EC No.: 232-658-1

 Cas No.: 9002-18-0
 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC54818	⊈ surplad	> 97%		100g
ESC54819	⊈ surotad	> 97%		250g

ALUMINIUM METAL - FOIL 0.1MM

A1 = 26.98g/mol

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC54834	⊈ surciad	N/A	0.1mm	250g

DL-ALANINE ((±)-2-AMINOPROPIONIC ACID)

 $CH_3CH(NH_2)COOH = 89.09g/mol$

 UN Class: N/A
 EC No.: 206-126-4

 Cas No.: 302-72-7
 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55260	⊈ surctad	97%		25g

ALUMINIUM METAL - POWDER

Al = 26.98g/mol



 UN Class: 4.3 /UN1396 PG-II
 EC No.: 231-072-3
 Danger

 Cas No.: 7429-90-5
 Index No.: 013-002-00-1

Hazard: H261 H228

Precaution: P280 P210+P240+P241

Cat No.	Grade	Assay	Info.	Per
ESC54835	⊈ surplad	98%	Fine	250g
ESC54836	⊈ surciad	98%	Fine	500g



ALUMINIUM AMMONIUM SULPHATE (AMMONIUM ALUM)

 $AINH_4(SO_4)_2 \cdot 12H_2O = 453.33g/mol$

UN Class: N/A EC No.: 232-055-3 Warning Cas No.: 7784-26-1

Index No · Not listed

Hazard: H315 H319 H335

Precaution: P261 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC54825	⊈ surciad	98%		500g

ALUMINIUM CHLORIDE ANHYDROUS (TRICHLOROALUMINIUM)

 $AlCl_3 = 133.34g/mol$

UN Class: 8 /UN1726 PG-II EC No.: 231-208-1 Danger Cas No.: 7446-70-0 Index No.: 013-003-00-7

Hazard: H314 H372+H378

Precaution: P260 P280 P305+P351+P338 P302+P352

Cat No.	Grade	Assay	Info.	Per
ESC54831	⊈ surotad	98%		500g

ALUMINIUM CHLORIDE 6-WATER (TRICHLOROALUMANE)

 $A1Cl_3 \cdot 6H_20 = 241.43g/mol$



UN Class: 8 /UN3260 PG-III FC No : 231-208-1 Danger Cas No.: 7784-13-6 Index No.: Not listed

Hazard: H314 H315 H319 H335 H412 Precaution: P273 P305+P351+P338 P261

Cat No.	Grade	Assay	Info.	Per
ESC54828	⊈ surplad	95%		100g

ALUMINIUM HYDROXIDE (ALUMINIC ACID)

 $Al(OH)_3 = 78g/mol$



UN Class: N/A EC No.: 244-492-7 Warning Cas No.: 21645-51-2 Index No.: Not listed

Hazard: H319

Precaution: P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC54833	⊈ surplad	95%		500g

ALUMINIUM NITRATE 9-WATER

 $Al(NO_3)_3 . 9H_20 = 375.13g/mol$



UN Class: 5.1 /UN1438 PG-III

EC No.: 236-751-8 Cas No.: 7784-27-2 Index No.: Not listed

Hazard: H272 H315 H319 Precaution: P220 P305+P351+P338

Info. Cat No. Grade Assav Per ESC54837 **⊈**surckad 95% 500g

ALUMINIUM OXIDE CALCINED (ALUMINA)

 $Al_2O_3 = 101.96g/mol$

UN Class: N/A EC No.: 215-691-6 Cas No.: 1344-28-1 Index No · Not listed

Hazard: Not considered hazardous Precaution: Not considered hazardous

Cat No.	Grade	Assay	Info.	Per
ESC54839	⊈ aurolad	97%		500g

ALUMINIUM POTASSIUM SULPHATE 12-WATER (POTASH ALUM)

 $AIK(SO_4)_2 . 12H_2O = 474.39g/mol$

UN Class: N/A EC No.: 233-141-3 Cas No.: 7784-24-9 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC54840	⊈ aurolad	99%		500g

ALUMINIUM SULPHATE 16-WATER (ALUNOGENITE)

 $Al_2(SO_4)_3$. $16H_2O = 630.4g/mol$



UN Class: N/A EC No.: 233-135-0 Cas No.: 16828-11-8 Index No.: Not listed

Hazard: H318

Precaution: P280 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC54843	⊈ surctad	98%		500g

AMINO ACID SET

L-Alanine, L-Aginine, L-Asparagine, L-Cystine, L-Glutamic Acid, Glycine, L-Histidine, L-Leucine, L-Lysine, DL-Methionine, DL-Phenylalanine, L-Proline, L-Serine, L-Threonine, L-Tryptophan, L-Tryrosine, L-Valine - 1g of

UN Class: N/A EC No.: N/A Cas No.: N/A Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC54845	⊈ surctad	N/A	17 Amino acids	SET

AMMONIA SOLUTION

 $NH_4OH = 35.05g/mol$



UN Class: 8 /UN2672 PG-III EC No.: 215-647-6 Cas No.: 1336-21-6 Index No.: 007-001-01-2

Hazard: H314 H400

Precaution: P273 P280 P305+P351+P338 P310

Cat No.	Grade	Assay	Info.	Per
ESC54847	⊈ surciad	33-35 NH ₃		1L
ESC54848	⊈ surciad	33-35 NH ₃		2.5L



AMMONIUM ACETATE (AMMONIUM ETHANOATE)

CH₃COONH₄ = 77.08g/mol

Hazard: Not considered hazardous Precaution: Not considered hazardous Notes: pH of solution 6.5-7.5

Cat No.	Grade	Assay	Info.	Per
ESC54851	⊈ surctad	96%		500g

AMMONIUM HYDROGEN CARBONATE (AMMONIUM BICARBONATE)

NH₄HCO₃ = 79.06g/mol

 UN Class: N/A
 EC No.: 213-911-5
 Warning

 Cas No.: 1066-33-7
 Index No.: Not listed

Hazard: H302 Precaution: P301+P312

Cat No.	Grade	Assay	Info.	Per
ESC54866	⊈ surctad	98.5%		500g

AMMONIUM BROMIDE (HYDROBROMIC ACID MONOAMMONIATE)

 $NH_4Br = 97.94g/mol$

UN Class: N/A EC No.: 235-183-8 Warning

Cas No.: 12124-97-9 **Index No.**: Not listed

Hazard: H319 H315

Precaution: P305+P351+P338 P332+P313 P337+P313

Cat No.	Grade	Assay	Info.	Per
ESC54854	≜ surctad	99%		500g

DI-AMMONIUM HYDROGEN PHOSPHATE

(NH₄)₂HPO₄ = 132.06g/mol

o.: 231-987-8 Warning

UN Class: N/A EC No.: 231-987-8
Cas No.: 7783-28-0 Index No.: Not listed

Hazard: H315 H319 H335

Precaution: P261 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55236	⊈ surctad	98%		500g

AMMONIUM CARBONATE

 $)NH_{4})_{2}CO_{3} = 96.09g/mol$



 UN Class: N/A
 EC No.: 208-058-0
 Warning

 Cas No.: 506-87-6
 Index No.: Not listed

Hazard: H302

Precaution: P301+P312

Cat No.	Grade	Assay	Info.	Per
ESC54857	⊈ surciad	98%		500g

AMMONIUM IRON (II) SULPHATE 6-WATER

 $(NH_4)_2Fe(SO_4)_2$. $6H_2O = 392.14g/mol$



UN Class: N/A EC No.: 233-151-8
Cas No.: 7783-85-9 Index No.: Not listed

Hazard: H315 H319 H335

Precaution: P261 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC54869	⊈ surplad	98%		500g

AMMONIUM CHLORIDE (SAL AMMONIAC)

 $NH_4Cl = 53.49g/mol$



Danger

 UN Class: N/A
 EC No.: 235-186-4
 Warning

 Cas No.: 12125-02-9
 Index No.: Not listed

Hazard: H302 H319

Precaution: P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC54860	⊈ surctad	99%		500g

AMMONIUM IRON (III) CITRATE (AMMONIUM FERRIC CITRATE)

 $C_6H_8O_7$. xFe_3 . yNH_3

 UN Class: N/A
 EC No.: 214-686-6

 Cas No.: 1185-57-5
 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Price	Per
ESC54872	⊉ surplad	98%	Brown	15.95	100g

AMMONIUM DICHROMATE

 $(NH_4)_2Cr_2O_7 = 252.06g/mol$

UN Class: 5.1 /UN1439 PG-II



EC No.: 232-143-1

Cas No.: 7789-09-5 **Index No.**: 024-003-00-1 **Hazard**: H272 H350 H340 H360 H330 H301 H372 H312 H314 H334 H317 H410

Precaution: P201 P220 P260 P273 P280 P284

Cat No.	Grade	Assay	Info.	Per
ESC54863	⊈ surciad	33-35 NH ₃		500g

AMMONIUM IRON (III) CITRATE - GREEN

 $C_6H_8O_7\,.\,xFe_3\,.\,yNH_3$

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC54875	<u>Asimiai</u>	98%	Green	100g



AMMONIUM IRON (III) SULPHATE 12-WATER

 $NH_4Fe(SO_4)_2 . 12H_2O = 482.19g/mol$



UN Class: N/A EC No.: 233-382-4 Cas No.: 7783-83-7

Index No.: Not listed Hazard: H315 H319

Precaution: P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC54878	⊈ surolad Sacrolad	98%		500g

ISO-AMYL ACETATE (ISO-PENTYL ACETATE)

CH₃COOC₅H₁₁ = 130.18g/mol



UN Class: 3 /UN1104 PG-III FC No : 211-047-3 Warning Cas No.: 628-63-7 Index No.: 607-130-00-2

Hazard: H226 FUH066 Precaution: P210 P243 P280

Cat No.	Grade	Assay	Info.	Per
ESC54894	⊈ aurolad	95%		500ml

AMMONIUM METAVANADATE (AMMONIUM TRIOXOVANADATE)

NH₄VO₃ = 116.98g/mol



UN Class: 6.1 /UN2859 PG-II FC No.: 232-261-3 Danger Cas No.: 7803-55-6 Index No.: Not listed

Hazard: H301 H315 H319 H330 H335

Precaution: P260 P284 P301+P310 P305+P351+P338 P310

Cat No.	Grade	Assay	Info.	Price	Per
ESC54880	⊈ surcted	98%		15.95	50g

AMMONIUM PEROXODISULPHATE (AMMONIUM PERSULPHATE)

 $(NH_4)_2S_2O_8 = 228.2g/mol$





UN Class: 5.1 /UN1444 PG-III EC No.: 231-786-5 Danger

Cas No.: 7727-54-0 Index No.: 016-060-00-6

Hazard: H272 H302 H315 H317 H319 H334 H335

Precaution: P280 P305+P351+P338 P210 P302+P352 P304+P340 P309+P311

Cat No.	Grade	Assay	Info.	Per
ESC54888	⊈ surplad	98%		500g

AMMONIUM MOLYBDATE (VI) 4-WATER

 $(NH_4)_6Mo_7O_{24}$. $4H_2O = 1235.86g/mol$



UN Class: N/A EC No.: 234-722-4 Cas No.: 12054-85-2 Index No.: Not listed

Hazard: H315 H319 H335

Precaution: P261 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC54881	⊈ surolad	98%		500g

AMMONIUM SULPHATE

 $(NH_4)_2SO_4 = 132.14g/mol$

UN Class: N/A EC No.: 231-984-1 Danger

Cas No.: 7783-20-2 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	into.	Per
ESC54889	⊈ surciad	98.5%		500g

AMMONIUM NICKEL (II) SULPHATE 6-WATER (NICKEL AMMONIUM SULPHATE)

 $(NH_4)_2Ni(SO_4)_2 . 6H_2O = 394.99g/mol$



UN Class: N/A EC No.: 239-793-5 Danger Cas No : 7785-20-8 Index No.: Not listed

Hazard: H302 H317 H332 H334 H341 H350 H360 H372 H410 Precaution: P201 P261 P273 P280 P308+P313 P501

Cat No. Grade Info. Assay ESC54884 98% **⊉**surolad 500g

AMMONIUM THIOCYANATE

NH₄SCN = 76.12g/mol





UN Class: N/A EC No.: 217-175-6 Cas No.: 1762-95-4 Index No.: 615-030-00-5

Hazard: H302 H312 H332 H410 Precaution: P273 P280 P501

Cat No.	Grade	Assay	Info.	Per
ESC54892	⊈ surctad	96%		500g

AMMONIUM NITRATE

 $NH_4NO_3 = 80.04g/mol$



UN Class: 5.1 /UN2067 PG-III EC No.: 229-347-8 Cas No.: 6484-52-2 Index No.: Not listed

Hazard: H272 H319 H315

Precaution: P220 P261 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC54885	⊈ surolad	98%		500g

AMMONIUM OXALATE 1-WATER (OXALIC ACID DIAMMONIUM SALT)

 $(COONH_4)_2$. $H_20 = 142.11g/mol$



UN Class: 6.1 /UN2811 PG-III EC No.: 214-202-3 Cas No.: 6009-70-7 Index No.: 607-007-00-3

Precaution: P261 P302+P352 P304+P340+P312

Cat No.	Grade	Assay	Info.	Per
ESC54886	⊈ surciad	99%		100g



ISO-AMYL ALCOHOL (3-METHYL BUTAN-1-OL)

C₅H₁₁OH = 88.15g/mol



UN Class: 3 /UN1105 PG-III FC No : 204-633-5 Cas No.: 123-51-3 Index No.: 603-006-00-7

Hazard: H226 H315 H319 H332 H335

Precaution: P210 P261 P280 P337+P313 P304+P340+P312

Cat No.	Grade	Assay	Info.	Per
ESC55448	⊈ surciad	96%		2.5L

AQUADAG (CARBON COLLOIDAL)

N/A



LIN Class: N/A EC No.: 231-955-3 Cas No.: 7782-42-5 Index No.: Not listed

Hazard: H319 H335

Precaution: P261 P305+P351+P338

Notes: 20% suspension of colloidal in graphite

Cat No.	Grade	Assay	Info.	Per
ESC54899	⊈ surplad	N/A		100g

ANILINE (PHENYLAMINE)

 $C_6H_5NH_2 = 93.13g/mol$



UN Class: 6.1 /UN1547 PG-II EC No.: 200-539-3 Cas No : 62-53-3 Index No.: 612-008-00-7 Hazard: H301 H311 H317 H318 H331 H341 H351 H372 H410 Precaution: P261 P273 P280 P301+P310 P305+P351+P338 P311

Notes: Distillation range 182-186°C

Cat No.	Grade	Assay	Info.	Per
ESC54895	⊈ surolad	98%		1L

L-ARGININE ((S)-2-AMINO-5-GUANIDINOPENTANOIC ACID)

 $H_2NC(=NH)NH(CH_2)_3CH(NH_2CO_2H = 174.2g/mol$

FC No.: 200-811-1 UN Class: N/A Cas No.: 74-79-3 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC54900	⊈ surplad	98%		100g

ANILINE HYDROCHLORIDE (PHENYLAMMONIUM CHLORIDE)

 $C_6H_5NH_2$. HCl = 129.59g/mol







Danger



UN Class: 6.1 /UN1548 PG-III EC No.: 205-519-8 Danger

Index No.: 612-009-00-2 Hazard: H301 H311 H317 H318 H331 H341 H351 H372 H400 Precaution: P261 P273 P280 P301+P310 P305+P351+P338 P311

Cat No.	Grade	Assay	Info.	Per
ESC54896	⊈ surplad	98%		100g

L-ASCORBIC ACID (VITAMIN C)

 $C_6H_8O_6 = 176.13g/mol$

UN Class: N/A EC No.: 200-066-2 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	inio.	Per
ESC55468	⊉ surciad	99%		500g

ANTHRANILIC ACID (2-AMINOBENZOIC ACID)

 $2-(H_2N)C_6H_4CO_2H = 137.14g/mol$



UN Class: N/A EC No.: 204-287-5 Warning

Cas No : 118-92-3 Index No.: Not listed

Hazard: H319

Precaution: P305+P351+P338 P280

Cat No.	Grade	Assay	Info.	Per
ESC54897	⊈ surplad	97%		100g

DL - ASPARTIC ACID ((2S)-2-AMINOBUTANEDIOIC ACID)

HOOCCH₂CH(NH₂)COOH = 133.1g/mol

UN Class: N/A EC No.: 210-513-3 Cas No : 617-45-8 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55469	⊈ surplad	97%		25g

ANTI-BUMPING GRANULES (REFINED ALUMINIUM OXIDE)

 $Al_2O_3 = 101.96g/mol$

UN Class: N/A EC No.: 215-691-6 Cas No.: 1344-28-1 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required Notes: To prevent boiling liquids from bumping

I	Cat No.	Grade	Assay	Info.	Per
	ESC54898	⊈ surciad	97%		250g

L-ASPARTIC ACID ((S)-AMINOBUTANEDIOIC ACID)

NH₂CH(COOH). CH₂. COOH = 133.1g/mol

UN Class: N/A EC No.: 200-291-6 Cas No.: 56-84-8 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Price	Per
ESC55470	⊈ surotad	99%		15.95	25g



BARFOED'S REAGENT

NH₂CH(COOH). CH₂. COOH = 133.1g/mol



UN Class: N/A Cas No.: N/A

EC No.: N/A Warning Index No.: Not listed

Hazard: H411 Precaution: P273

Notes: Reagent testing for the presence of monosaccharide

İ	Cat No.	Grade	Assay	Info.	Per
	ESC54901	⊈ surciad	N/A		500ml

BARIUM PEROXIDE

 $BaO_2 = 169.34g/mol$



UN Class: 5.1(6.1) /UN1449 PG-II

Cas No.: 1304-29-6

EC No.: 215-128-4 Index No.: 056-001-00-1

Hazard: H272 H302 H332

Precaution: P220

Cat No.	Grade	Assay	Info.	Per
ESC54916	⊈ surciad	85-90%		100g

BARIUM METAL IN LIQUID PARAFFIN

Ba = 137.34g/mol

UN Class: 4.3 /UN1400 PG-II EC No : 231-149-1 Danger Cas No.: 7440-39-3 Index No.: Not listed

Hazard: H261 H315 H319 H335

Precaution: P231+P232 P261 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC54903	⊈ surolad	98%		10g

BARIUM NITRATE

 $Ba(NO_3)_2 = 261.34g/mol$



Danger

Danger

UN Class: 5.1(6.1) /UN1446 PG-II EC No : 233-020-5 Cas No.: 10022-31-8 Index No.: 056-002-00-7

Hazard: H302 H332 H272

Precaution: P210 P280 P304+P340 P309+P310

Cat No.	Grade	Assay	Info.	Per
ESC54914	⊈ surciad	98%		250g

BARIUM CARBONATE

 $BaCO_2 = 197.34g/mol$



UN Class: 6.1 /UN1564 PG-III

EC No.: 208-167-3

BaO = 153.33g/mol Warning

BARIUM OXIDE

Cas No.: 1304-28-5

Cat No

ESC54915

Danger

EC No: 215-127-9 Index No.: Not listed

Hazard: H301 H314 H332

UN Class: 6.1 /UN1884 PG-III

Precaution: P280 P301+P310 P305+P351+P338

Grade

⊈surciad

J I	+F330	
	Info.	Per

Cas No.: 513-77-9

Index No.: 056-003-00-2

Hazard: H302

Precaution: P301+P312

Cat No.	Grade	Assay	Info.	Per
ESC54904	⊈ surciad	99%		500g

BARIUM CHLORIDE 2-WATER

 $BaCl_2 . 2H_2O = 244.26g/mol$

UN Class: 6.1 /UN1564 PG-III EC No.: 233-788-1 Warning Cas No.: 10326-27-9 Index No.: 056-004-00-8

Hazard: H301 H332

Precaution: P261 P301+P330+P331 P310

Cat No.	Grade	Assay	Info.	Per
ESC54907	⊈ surplad	99%		250g
ESC54908	⊉ surciad	99%		500g

BARIUM SULPHATE PRECIPITATED

BaSO₄ = 233.39g/mol

UN Class: N/A EC No.: 231-784-4 Cas No.: 7727-43-7 Index No.: Not listed

Assav

97%

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC54917	≜ surctad	97%		500g

BARIUM HYDROXIDE 8-WATER

 $Ba(OH)_2 . 8H_2O = 315.46g/mol$



UN Class: 8 /UN3262 PG-II EC No : 241-234-5 Danger Cas No.: 12230-71-6 Index No.: Not listed

Hazard: H302 H314 H332

Precaution: P280 P305+P351+P338 P310

Cat No.	Grade	Assay	Info.	Per
ESC54911	⊈ surctad	96%		500g

BEESWAX (WHITE)

UN Class: N/A EC No : 232-383-7 Cas No.: 8012-89-3 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC54920	≜ surplad	> 97%		500g



BENZOPHENONE (DIPHENYL KETONE)

 $C_6H_5COC_6H_5 = 182.22g/mol$



Warning

UN Class: N/A Cas No.: 119-61-9 EC No.: 204-337-6

Index No.: Not listed

Hazard: H410 Precaution: P273

Cat No.	Grade	Assay	Info.	Per
ESC54931	⊈ surciad	99%		250ml

BENZOIC ACID (BENZENECARBOXYLIC ACID)

 $C_6H_5COOH = 122.12g/mol$



Warning

UN Class: N/A EC No.: 200-618-2 Cas No.: 65-85-0 Index No.: Not listed

Hazard: H302 H319

Precaution: P301+P312 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC54930	⊈ surctad	98.5%		500g

BENEDICT'S SOLUTION QUALITATIVE

Grade

⊈eurolad



Warning

UN Class: 9 /UN3082 PG-III

EC No.: N/A

 $C_6H_5COCl = 140.57g/mol$

Cas No.: N/A

UN Class: 8 /UN1736 PG-II

BENZOYL CHLORIDE

EC No.: 202-710-8 Danger

Hazard: H412

Index No.: Not listed

Index No.: 607-012-00-0

Cas No.: 98-88-4

Precaution: P273

N/A

Hazard: H314 H302 H312 H332

Precaution: P280 P305+P351+P338 P310

Notes: For determination of reducing sugars

Cat No.

ESC54923

Assay Info. Per 500ml

Cat No.	Grade	Assay	Info.	Per
ESC54933	⊈ surplad	99%		1L

BENZALDEHYDE

 C_6H_5 . CHO = 106.12g/mol



UN Class: 9 /UN1990 PG-III Cas No.: 100-52-7

EC No.: 202-860-4 Warning

UN Class: 9 /UN3334 PG-III

 $C_6H_5CH_2OH = 108.14g/mol$

Warning

Index No.: 605-012-00-5

Cas No.: 100-51-6

EC No.: 202-859-9

Hazard: H302

Hazard: H302 H332

Grade

Index No.: 603-057-00-5

Cat No.

ESC54936

Precaution: P301+P312

Info. Assav

Precaution: P301+P312

Notes: Distillation range 175-183°C Cat No. Grade Assav

Cat No.	Grade	Assay	Info.	Per
ESC54926	<u>Astrolad</u>	98%		500ml

BENZENE-1,2-DICARBOXYLIC ACID SEE PHTHALIC ACID **BENZENE-1,2-DICARBOXYLIC ANHYDRIDE**

	SEE PHTHALIC AHHYDRIDE
BENZENE-1,2-DIOL	SEE CATECHOL
BENZENE-1,3-DIOL	SEE RESORCINOL
BENZENE-1,4-DIOL	SEE HYDROQUINONE
BENZENE-1,2,3-TRIOL	SEE PYROGALLOL
BENZENE-1,2,5-TRIOL	SEE PHLOROGLUCINOL

BENZYL CHLORIDE (A-CHLOROTOLUENE)

BENZYL ALCOHOL (BENZENEMETHANOL)

 $C_6H_5CH_2Cl = 126.58g/mol$



Danger

11

UN Class: 6.1 /UN1738 PG-II Cas No.: 100-44-7

EC No.: 202-853-6

Index No.: 602-037-00-3

99%

Hazard: H350 H331 H302 H373 H335 H315 H318

Precaution: P201 P261 P280 P305+P351+P338 P308+P313 Notes: Distillation range 175-180°C

Notes. Distillation range 175-100 G					
Cat No.	Grade	Assay	Info.	Per	
ESC54939	⊈ surciad	98%	SURCHARGE	500ml	

BENZIL (1,2-DIPHENYLETHANE-1,2-DIONE)

 $C_{14}H_{10}O_2 = 210.23g/mol$



UN Class: N/A EC No.: 205-157-0 Warning Cas No.: 134-81-6 Index No.: Not listed

Hazard: H315 H319 H335

Precaution: P261 P305+P351+P338 P302+P352

Cat No. Grade Assay Info. Per ESC54928 25g 98% **⊉**surciad

BICARBONATE INDICATOR

UN Class: N/A EC No.: N/A Cas No.: N/A Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Notes: Distillation range 175-180°C

Cat No.	Grade	Assay	Info.	Per
ESC54943	⊈ surplad	N/A		500ml



BILE SALTS (SODIUM TAUROGLYCOCHOLATE)

UN Class: N/A EC No.: 234-243-0 Cas No.: 11006-55-6 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Notes: Distillation range 175-180°C

	Cat No.	Grade	Assay	Info.	Per
Į	ESC54944	⊈ surplad	>65%		25g

BISMUTH (III) CHLORIDE (BISMUTH TRICHLORIDE)

BiCl₃ = 315.34g/mol

UN Class: N/A EC No.: 232-123-2 Cas No.: 7787-60-2 Index No.: Not listed

Hazard: H315 H319

Precaution: P305+P351+P338 P302+P352

ĺ	Cat No.	Grade	Assay	Info.	Per
	ESC54945	⊈ surplad	98%		10g

BISMUTH NITRATE 5-WATER

 $Bi(NO_3)_3 . 5H_2O = 485.07g/mol$



UN Class: 5.1 /UN1477 PG-II EC No.: 233-791-8 Cas No.: 10035-06-0 Index No.: Not listed

Hazard: H272 H315 H319 H335 Precaution: P220 P261 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC54946	⊈ surctad	98%		25g

BIURET REAGENT

N/A





UN Class: N/A EC No.: N/A Warning Cas No.: N/A Index No.: Not listed

Hazard: H315 H319

Precaution: P280 P305+P351+P338 Notes: Working solution to test for proteins

Cat No.	Grade	Assay	Info.	Per
ESC54947	⊈ surotad	N/A		1L

BLEACHING POWDER SEE CALCIUM HYPOCHLORITE

BORAX SEE DISODIUM TETRABORATE

BORIC ACID CRYSTALS (TRIOXYBORIC (III) ACID)

 $H_3BO_3 = 61.83g/mol$

UN Class: N/A EC No.: 233-139-2 Danger Cas No.: 10043-35-3 Index No.: 005-007-00-2

Hazard: H360FD

Precaution: P201 P308+P313

Cat No.	Grade	Assay	Info.	Per
ESC54950	⊈ surciad	99.5%		500g

BORIC ACID POWDER (TRIOXYBORIC (III) ACID)

 $H_3BO_3 = 61.83g/mol$



EC No.: 233-139-2 UN Class: N/A Danger Cas No.: 10043-35-3 Index No.: 005-007-00-2

Hazard: H360FD

Precaution: P201 P308+P313

Cat No.	Grade	Assay	Info.	Per
ESC54951	≜ surotad	99.5%		500g

BROMINE

 $Br_2 = 159.81g/mol$



UN Class: 8(6.1) /UN1744 PG-I Cas No.: 7726-95-6

EC No.: 231-778-1

Index No.: 035-001-00-5

Hazard: H314 H330 H400

Precaution: P260 P273 P280 P284 P305+P351+P338 P310

Cat No.	Grade	Assay	Info.	Per
ESC54953	⊉ surplad	98%	SURCHARGE	1L

BROMINE WATER 0.2M

N/A



UN Class: 8(6.1) /UN1744 PG-I EC No.: 231-778-1 Cas No.: 7726-95-6 Index No.: Not listed

Hazard: H314 H330 H400

Precaution: P273 P280 P305+P351+P338 P310

Cat No.	Grade	Assay	Info.	Per
ESC54954	⊈ surplad	0.2M	SURCHARGE	1L

BROMOBENZENE

 C_6H_5 . Br = 157.01g/mol







UN Class: 3 /UN2514 PG-III Cas No.: 108-86-1

EC No.: 203-623-8

Index No.: 602-060-00-9

Hazard: H226 H315 H411 Precaution: P210 P273

Cat No.	Grade	Assay	Info.	Per
ESC54960	⊈ surolad	95%		100ml



1-BROMOBUTANE (N-BUTYL BROMIDE)

 Ch_3 , CH_2 , CH_2 , CH_2 , BR = 137.02g/mol $\,$



 UN Class: 3 /UN1126 PG-II
 EC No.: 203-691-9

 Cas No.: 109-65-9
 Index No.: Not listed

Hazard: H225 H315 H319 H335 H411

Precaution: P210 P261 P273 P280 P337+P313 P391 P403+P235

Cat No.	Grade	Assay	Info.	Per
ESC54760	⊈ surctad	>97%		1L

2-BROMO-2-METHYLPROPANE (TERT-BUTYL BROMIDE)

 $(CH_3)_3CBr = 137.02g/mol$

16°

Hazard: H225 Precaution: P210

Cat No.	Grade	Assay	Info.	Per
ESC54784	⊈ surcted	>97%		25ml

2-BROMOBUTANE (SEC-BUTYL BROMIDE)

 Ch_3 . CHBR. CH_2 . $CH_3 = 137.02g/mol$



Danger

Hazard: H226 H412

Precaution: P210 P243 P273 P280

Cat No.	Grade	Assay	Info.	Per
ESC54782	⊈ surciad	>97%		100ml

BROMO PHENOL BLUE

 $C_{19}H_{10}Br_4O_5S = 669.96g/mol$



Hazard: H332 H312 H319

Precaution: P261 P280 P305+P351+P338 P264

Notes: pH 2.8-4.6

I	Cat No.	Grade	Assay	Info.	Per
	ESC54957	⊈ surciad	>97%	Powder	25g

BROMOCRESOL GREEN

 $C_{21}H_{14}Br_4O_5S = 698.01g/mol$

UN Class: N/A EC No.: 200-972-8
Cas No.: 76-60-8 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Notes: pH 3.6-5.2

Cat No.	Grade	Assay	Info.	Per
ESC54964	⊈ surciad	>97%	Powder	25g

BROMOTHYMOL BLUE

 $C_{27}H_{28}Br_2O_5S = 624.38g/mol$

 UN Class: N/A
 EC No.: 200-971-2

 Cas No.: 76-59-5
 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Notes: pH 6.0-7.6

Cat No.	Grade	Assay	Info.	Per
ESC54970	⊈ surciad	>97%	Powder	25g

BROMOCRESOL PURPLE

 $C_{21}H_{16}Br_{2}O_{5}S = 540.22g/mol$



 UN Class: N/A
 EC No.: 204-087-8
 Warning

 Cas No.: 115-40-2
 Index No.: Not listed

Hazard: H315 H319 H335

Precaution: P261 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC54967	⊈ surciad	>97%	pH 5.2-6.8	25g

1-BROMOETHANE (ETHYL BROMIDE)

 $C_2H_5Br = 108.97g/mol$



Danger

Hazard: H225 H351 H332 H302

Precaution: P201 P210 P281 P301+P312 P304+P340 P309+P311

Cat No.	Grade	Assay	Info.	Per
ESC54763	⊈ surciad	>97%		500ml

BUFFER SOLUTION

 UN Class: N/A
 EC No.: N/A

 Cas No.: N/A
 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC54978	⊈ surctad		pH2 (Citrate)	500ml
ESC54982	⊈ surolad		pH4 (Phthalate)	500ml
ESC54985	⊈ surciad		pH6 (Acetate)	500ml
ESC54988	⊈ surolad		pH7 (Phthalate)	500ml
ESC54991	⊈ surctad		pH9.2 (Phthalate)	500ml
ESC54974	⊈ surciad		pH10 (Phthalate)	500ml



COLOURED BUFFER SOLUTION

UN Class: N/A EC No.: N/A Cas No.: N/A Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
	ESC54998		pH4 Red	500ml
ESC54998			pH7 Green	500ml
			pH10 Blue	500ml

BUTAN-2-OL (SEC-BUTYL ALCOHOL)

CH₃CH₂CHOHCH₃ = 74.12g/mol



UN Class: 3 /UN1120 PG-III EC No.: 201-158-5 Warning

Cas No.: 78-92-2 Index No.: 603-127-00-5

Hazard: H225 H319 H335 H336

Precaution: P210 P243 P280 P304+P340 P305+P351+P338 P312

Cat No.	Grade	Assay	Info.	Per
ESC55005	⊈ surciad	99.5%		1L

BUTANAL (N-BUTYRALDEHYDE)

CH₃CH₂CH₂CHO = 72.11g/mol



UN Class: 3 /UN1129 PG-II EC No.: 204-646-6 Danger Cas No.: 123-72-8 Index No.: 605-006-00-2

Hazard: H225 Precaution: P210

Cat No.	Grade	Assay	Info.	Per
ESC55000	⊈ surplad	98%		100ml
ESC55001	⊈ surplad	98%		500ml

BUTANONE (METHYL ETHYL KETONE)

 $C_2H_5COCH_3 = 72.11g/mol$

Danger

UN Class: 3 /UN1193 PG-II EC No.: 201-159-0 Cas No.: 78-93-3 Index No.: Not listed

Hazard: H225 H319 H336

Precaution: P210 P241 P303+P361+P353 P405 P501

Cat No.	Grade	Assay	Info.	Per
ESC55006	⊈ surolad	99%		2.5L

BUTANEDIOIC ACID SEE SUCCINIC ACID

BUTANOIC ACID (N-BUTYRIC ACID)

CH₃CH₂CH₂COOH = 88.11g/mol



UN Class: 8 /UN2820 PG-III EC No : 203-532-3 Danger Cas No.: 107-92-6 Index No.: 607-135-00-X

Hazard: H314

Precaution: P280 P305+P351+P338 P310

Cat No.	Grade	Assay	Info.	Per
ESC55002	⊈ surplad	99.5%		100ml

N-BUTYL ACETATE (BUTYL ETHANOATE)

 $CH_3COO(CH_2)_3CH_3 = 116.16g/mol$



UN Class: 3 /UN1123 PG-III EC No.: 204-658-1 Cas No.: 123-86-4 Index No.: 607-025-00-1

Hazard: H226 H336 FUH066

Precaution: P210 P243 P280 P304+P340 P312

Cat No.	Grade	Assay	Info.	Per
ESC55640	⊈ surplad	98%		1L

ISO-BUTYL ALCOHOL SEE 2-METHYLPROPAN-1-OL

N-BUTYL ALCOHOL SEE BUTAN-1-OL

SEC-BUTYL ALCOHOL SEE BUTAN-2-OL

TERT-BUTYL ALCOHOL SEE 2-METHYLPROPAN-2-OL

BUTAN-1-OL (N-BUTYL ALCOHOL)

 $CH_3(CH_2)_3OH = 74.12g/mol$



UN Class: 3 /UN1120 PG-III EC No.: 200-751-6 Cas No.: 71-36-3 Index No.: 603-004-00-6

Hazard: H226 H302 H335 H315 H318 H336

Precaution: P210 P280 P301+P330+P331 P304+P340 P312

Cat No.	Grade	Assay	Info.	Per	
ESC55003	⊈ surctad	99.5%		500ml	
ESC55004	≜ surctad	99.5%		2.5L	

N-BUTYLAMINE (1-AMINOBUTANE)

 $CH_3(CH_2)_3NH_2 = 73.14g/mol$



UN Class: 3(8) /UN1125 PG-II EC No.: 203-699-2 Cas No.: 109-73-9 Index No.: 612-005-00-0

Hazard: H225 H332 H312 H302 H314

Precaution: P210 P243 P280 P301+P330+P331 P302+P352 P304+P340 P309+P311

Cat No.	Grade	Assay	Info.	Per
ESC55644	⊈ surplad	98%		1L

Tel: +44 (0)203 8685740

N-BUTYL IODIDE SEE 1-IODOBUTANE

N-BUTYRALDEHYDE SEE BUTANAL



United Kingdom

CAESIUM CHLORIDE

CsCl = 168.32g/mol

UN Class: N/A EC No.: 231-600-2 Danger

Cas No.: 7647-17-8 Index No.: Not listed

Hazard: H302 H361 H373

Precaution: P201 P301+P312+P330 P308-P313

Cat No.	Grade	Assay	Info.	Per
ESC55007	⊈ surciad	99%		10g

CALCIUM CARBIDE

 $CaC_2 = 64.1g/mol$



UN Class: 4.3 /UN1402 PG-II EC No : 200-848-3 Cas No : 75-20-7 Index No.: 006-004-00-9

Hazard: H260

Precaution: P223 P231+P232 P370+P378

Cat No.	Grade	Assay	Info.	Per
ESC55016	⊈ surplad	97%		500g

CAFFEINE (1,3,7-TRIMETHYLXANTHINE)

 $C_8H_{10}N_4O_2 = 194.19g/mol$



Warning

UN Class: 6.1 /UN1544 PG-III Cas No.: 58-08-2

EC No.: 200-362-1

Index No.: 613-086-00-5

Hazard: H302

Precaution: P301+P312

Cat No.	Grade	Assay	Info.	Per
ESC55008	⊈ surctad	98%		25g

CALCIUM CARBONATE - PRECIPITATED (PRECIPITATED)

CaCO₃ = 100.09g/mol

UN Class: N/A EC No.: 207-439-9 Cas No.: 471-34-1 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55020	⊈ surciad	99%		500g
ESC55021	⊉ surolad	99%		1kg

CALCIUM METAL - GRANULAR

Ca = 40.08g/mol



UN Class: 4.3 /UN1401 PG-II Cas No.: 7440-70-2

EC No.: 231-179-5 Index No.: 020-001-00-X

Danger

Hazard: H261

Precaution: P231+P232 P422

Cat No.	Grade	Assay	Info.	Per
ESC55041	⊈ surplad	98%	2-7mm	50g
ESC55042	⊈ surplad	98%	2-7mm	100g

CALCIUM CARBONATE ORE SEE MARBLE CHIPS

CALCIUM CHLORIDE ANHYDROUS - GRANULAR

 $CaCl_2 = 110.99g/mol$



Cas No.: 10043-52-4 Index No.: 017-013-00-2

Hazard: H319

UN Class: N/A

Precaution: P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55032	⊈ surotad	90%		500g

EC No.: 233-140-8

CALCIUM ACETATE (CALCIUM ETHANOATE)

(CH₃COO)₂Ca = 158.17g/mol

UN Class: N/A EC No.: 200-540-9 Cas No.: 62-54-4 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55011	⊈ surcted	99%		250g

CALCIUM BROMIDE

 $CaBr_2 . xH_2O = 199.89g/mol$



UN Class: N/A EC No.: 232-164-6 Warning Cas No.: 71626-99-8 Index No.: Not listed

Hazard: H315 H319 H355

Precaution: P261 P302+p352 P305+P351+P338 P405 P501

Cat No.	Grade	Assay	Info.	Per
ESC55012	⊈ surolad	97%		250g

CALCIUM CHLORIDE 2-WATER

CaCl₂ • 2H₂O = 147.01g/mol



Warning

EC No.: 233-140-8 UN Class: N/A Cas No.: 10035-04-8 Index No.: Not listed

Hazard: H319

Precaution: P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55028	⊈ surplad	98%		500g



CALCIUM CHLORIDE 6-WATER

 $CaCl_2 \cdot 6H_2O = 219.08g/mol$



UN Class: N/A EC No.: N/A Warning Cas No : 7774-34-7 Index No.: Not listed

Hazard: H319

Precaution: P305+P351+P338 P230 P337+313

Cat No.	Grade	Assay	Info.	Per
ESC55030	⊈ surotad	98%		500g

CALCIUM HYDROXIDE

 $Ca(OH)_2 = 74.09g/mol$



UN Class: N/A EC No.: 215-137-3 Cas No.: 1305-62-0 Index No.: Not listed

Hazard: H318

Precaution: P280 P305+P351+P338

l	Cat No.	Grade	Assay	Info.	Per
	ESC55036	⊈ surciad	95%		500g

CALCIUM HYDROXIDE SOLUTION SEE LIME WATER

CALCIUM ETHANOATE SEE CALCIUM ACETATE

CALCIUM HYPOCHLORITE (BLEACHING POWDER)

 $Ca(OCl)_2 = 142.98g/mol$



UN Class: 5.1 /UN1748 PG-II EC No.: 231-908-7 Danger Cas No.: 7778-54-3 Index No.: 017-012-00-7

Hazard: H272 H302 H314 H400

Precaution: P220 P273 P280 P305+P351+P338 P310

Cat No.	Grade	Assay	Info.	Per
ESC55039	⊈ surctad	96%		500g

CALCIUM NITRATE 4-WATER

 $Ca(NO_3)_2 . 4H_2O = 236.15g/mol$



UN Class: 5.1 /UN1454 PG-III FC No : 233-332-1 Warning Cas No.: 13477-34-4 Index No.: Not listed

Hazard: H272 H315 H319 H335

Precaution: P220+P261 P280 P304+P340 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55048	⊈ surciad	98%		500g

CALCIUM OXIDE (QUICKLIME)

CaO = 56.08g/mol



UN Class: 8 /UN1910 PG-III EC No.: 215-138-9 Danger Cas No.: 1305-78-8 Index No.: Not listed

Hazard: H314

Precaution: P280 P305+P351+P338 P312

Cat No.	Grade	Assay	Info.	Per
ESC55054	⊈ surplad	96%		1kg
ESC55053	⊈ surciad	96%		500g

CALCIUM SULPHATE 2-WATER - PRECIPITATE

CaSO₄ • 2H₂O = 172.17g/mol

UN Class: N/A EC No.: 231-900-3 Cas No.: 10101-41-4 Index No.: Not listed

Hazard: H225 H319 H335 H336

Precaution: P210 P243 P280 P304+P340 P305+P351+P338 P312

Cat No.	Grade	Assay	Info.	Per
ESC55064	⊉ surolad	99%		500g

CALCIUM SULPHATE (PLASTER OF PARIS)

 $CaSO_4 \cdot .H_2O = 145.15g/mol$

UN Class: N/A EC No.: 231-900-3 Cas No.: 10034-76-1 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55059	⊈ surciad	N/A		500g
ESC55060	⊈ surcted	N/A		1kg

CALCIUM TETRAHYDROGEN PHOSPHATE (CALCIUM PHOSPHATE MONOBASIC)

 $Ca(H_2PO_4)_2 \cdot H_2O = 252.07g/mol$



Warning

EC No.: 231-837-1 UN Class: N/A Cas No.: 10031-30-8 Index No.: Not listed

Hazard: H315 H319 H335

Precaution: P261 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55068	⊈ surctad	97%		500g

DL-CAMPHOR - SYNTHETIC (1,7,7-TRIMETHYLBICYCLO[2,2,1]HEPTAN-2-ONE)

 $C_{10}H_{16}O = 152.24g/mol$



UN Class: 4.1 /UN2717 PG-III EC No.: 200-945-0 Cas No.: 76-22-2 Index No.: Not listed

Hazard: H228 H302 H315 H319 H335 Precaution: P210 P261 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55070	≜ surctad	97%		100g

CANADA BALSAM IN XYLENE





UN Class: 3 /UN1307 PG-III Cas No.: N/A

EC No.: N/A Index No.: Not listed

Hazard: H226 H332 H312 H315

Precaution: P280

Cat No.	Grade	Assay	Info.	Per
ESC55072	⊈ surctad	97%		25ml



CARMINE ACETIC

N/A



UN Class: 8 /UN1760 PG-III Cas No.: N/A EC No.: N/A Danger Index No.: Not listed

Oas No. N/A

Hazard: H314 **Precaution:** P260 P280 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55076	⊈ eurolad	98%		500ml

CARBAMIDE SEE UREA

CARBOLIC ACID SEE PHENOL

CARBON COLLOIDAL SEE AQUADAG

CARBON POWDER SEE GRAPHITE POWDER

CASEIN POWDER

 UN Class: N/A
 EC No.: 234-243-0

 Cas No.: 9000-71-9
 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55080	⊈ surciad	59%		100g

CASTOR OIL SEE OIL, CASTOR

CATECHOL (BENZENE-1,2-DIOL OR PYROCATECHOL)

 $C_6H_4(OH)_2 = 110.11g/mol$



Warning

UN Class: 6.1 /UN2811 PG-III

EC No.: 204-427-5

Cas No.: 120-80-9

Index No.: 604-016-00-4

Hazard: H302 H312 H315 H319

Precaution: P280 P305+P351+P338 P301+P312 P302+P352

Cat No.	Grade	Assay	Info.	Per
ESC55082	⊈ surciad	98%		100g

CERIUM (IV) SULPHATE (CERIC SULPHATE)

 $Ce(SO_4)_2 \cdot 4H_2O = 404.3g/mol$



UN Class: N/A **EC No.:** 237-029-5 Warr

Cas No.: 10294-42-5 **Index No.**: Not listed

Hazard: H315 H319 H335

Precaution: P261 P305+P351+P338 P302+P352

Cat No.	Grade	Assay	Info.	Per
ESC55083	⊈ surciad	98%		25g

CHARCOAL-ACTIVATED (FOR GAS ABSORBTION 8-24 MESH)

UN Class: 4.2 /UN1362 PG-III EC No.: 231-153-3
Cas No.: 7440-44-0 Index No.: Not listed
Hazard: Not considered hazardous

Precaution: No additional precautions required **Notes:** For Gas Absorbtion 8-24 Mesh

Cat No.	Grade	Assay	Info.	Per
ESC55086	⊈ sumlad	95%		250g
ESC55087	⊈ surctad	95%		500g

CHARCOAL WOOD LUMP

 UN Class: N/A
 EC No.: 231-153-3

 Cas No.: 7440-44-0
 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55089	⊈ surctad	N/A		1kg

CHLORINE WATER



Cas No.: 7681-52-9 Index No.: 017-011-00-1

Precaution: No additional precautions required

Cat No. Grade Assav Info. Price P.

Cat No.	Grade	Assay	Info.	Price	Per
ESC55091	⊉ surplad	98%		15.95	500ml

CHLOROACETIC ACID

C1CH₂COOH = 94.5g/mol



Hazard: H331 H311 H301 H314 H400

Precaution: P261 P273 P280 P301+P310 P501

Cat No.	Grade	Assay	Info.	Per
ESC55093	⊈ surctad	99%		100g

CHLOROBENZENE

 $C_6H_5Cl = 112.56g/mol$





 UN Class: 3 /UN1134 PG-III
 EC No.: 203-628-5

 Cas No.: 108-90-7
 Index No.: 602-033-00-1

Hazard: H226 H332 H411 H302 H315

Precaution: P273

Cat No.	Grade	Assay	Info.	Per
ESC55096	≜ surplad	99%		2.5L

1-CHLOROBUTANE (BUTYL CHLORIDE)

 $CH_3(CH_2)_3Cl = 92.57g/mol$



Hazard: H225 H304 H412

Precaution: P210 P273 P301+P310 P331 P403+P235

Cat No.	Grade	Assay	Info.	Per
ESC54766	⊈ surciad	98%		1L



1-CHLOROBUTANE (BUTYL CHLORIDE)

 $CH_3(CH_2)_3Cl = 92.57g/mol$



 UN Class: 3 /UN1127 PG-II
 EC No.: 203-696-6
 Danger

 Cas No.: 109-69-3
 Index No.: 602-059-00-3

Hazard: H225 H304 H412

Precaution: P210 P273 P301+P310 P331 P403+P235

Cat No.	Grade	Assay	Info.	Per
ESC54767	⊈ surplad	98%		100mL

CHROMIUM (III) NITRATE 9-WATER

 $Cr(NO_3)_3 \cdot 9H_2O = 400.15g/mol$



Warning

Hazard: H272 H315 H319

Precaution: P210 P280 P305+P351+P338 P337+P313

Cat No.	Grade	Assay	Info.	Per
ESC55108	⊈ surciad	96%		500g

CHLOROFORM (TRICHLOROMETHANE)

CHCl₃ = 119.38g/mol

Namina Warning

 UN Class: 6.1 /UN1888 PG-III
 EC No.: 200-663-8
 Warning

 Cas No.: 67-66-3
 Index No.: 602-006-00-4

Hazard: H351 H302 H373 H315

Precaution: P281 P302+P352 P309+P311

Cat No.	Grade	Assay	Info.	Per
ESC55100	⊈ surplad	99.5%		2.5L

CHROMIUM (III) OXIDE

 $Cr_2O_3 = 151.99g/mol$

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55112	⊈ surotad	99%		500g

2-CHLORO-2-METHYLPROPANE (TERT-BUTYL CHLORIDE)

 $(CH_3)_3CC1 = 92.57g/mol$



UN Class: 3 /UN1127 PG-II Cas No.: 507-20-0 EC No.: 208-066-4 Index No.: Not listed

Hazard: H225 Precaution: P210

Cat No.	Grade	Assay	Info.	Per
ESC55102	⊈ surotad	98%		100ml

CHROMIUM (III) POTASSIUM SULPHATE 12-WATER (ALUM CHROME)

CrK(SO₄)₂ • 12H₂O = 499.39g/mol



Warning

 UN Class: N/A
 EC No.: 233-401-6

 Cas No.: 7788-99-0
 Index No.: Not listed

Hazard: H315 H319

Precaution: P280 P302+P352 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55116	⊈ surplad	99%		500g

CHOLESTEROL

 $C_{27}H_{46}O = 386.66g/mol$

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55103	⊈ surctad	95%		25g

CINNAMIC ACID (3-PHENYLACRYLIC ACID)

 $C_6H_5CH:CH.COOH = 148.16g/mol$



Hazard: H315 H319 H335

Precaution: P261 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55118	⊈ surolad	99%		100g



CITRIC ACID ANHYDROUS

HOC(COOH)(CH2COOH)2 = 192.13g/mol



 UN Class: N/A
 EC No.: 201-069-1
 Warning

 Cas No.: 77-92-9
 Index No.: Not listed

Hazard: H319

Precaution: P305+P351+P338

 Cat No.
 Grade
 Assay
 Info.
 Per

 ESC55128
 \$\frac{1}{2}_{2}\$ \frac{1}{2}\$ 99.5%
 500g

COBALT (II) CHLORIDE 6-WATER

 $C_0Cl_2 \cdot 6H_2O = 237.93g/mol$



Hazard: H350i H341 H360F H302 H334 H317 H410

Precaution: P201 P261 P273 P280 P302+P352 P308+P313 P501

Cat No.	Grade	Assay	Info.	Per
ESC55134	⊈ surctad	98%		250g

CITRIC ACID 1-WATER

 $HOC(COOH)(CH_2COOH)_2 \cdot H_2O = 210.14g/mol$



UN Class: N/A **EC No.:** 201-069-1 Danger

Cas No.: 5949-29-1 Index No.: Not listed

Hazard: H318 H335 H315

Precaution: P261 P280 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55122	⊈ surplad	99%		500g
ESC55123	⊈ surplad	99%		1kg

COBALT (II) NITRATE 6-WATER

 $Co(NO_3)_2 \cdot 6H_2O = 291.03g/mol$



 UN Class: 5.1 /UN1477 PG-II
 EC No.: 233-402-1
 Danger

 Cas No.: 10026-22-9
 Index No.: Not listed

Hazard: H272 H302 H317 H350i H341 H360DF H334

Precaution: P201 P210 P220 P273 P261 P280 P284 P304+P340

Cat No.	Grade	Assay	Info.	Per
ESC55136	⊈ surciad	97%		500g

CLAY POWDER

 UN Class: N/A
 EC No.: N/A

 Cas No.: N/A
 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55125	⊈ surciad	N/A		1kg

COBALT (II) OXIDE - BLACK (TRICOBALT TETRAOXIDE)

 $Co_3O_4 = 240.8g/mol$



 UN Class: N/A
 EC No.: 215-157-2
 Danger

 Cas No.: 1308-06-1
 Index No.: Not listed

Hazard: H334 H350i H412

Precaution: P201 P261 P273 P284 P304+P340

Cat No.	Grade	Assay	Info.	Per
ESC55142	⊈ surotad	97%		100g

COBALT METAL - POWDER

Co = 58.93 g/mol



 UN Class: 4.1 /UN3089 PG-II
 EC No.: 231-158-0
 Danger

 Cas No.: 7440-48-4
 Index No.: 027-001-00-9

Hazard: H334 H317 H413

Precaution: P261 P280 P342+P311

	Cat No.	Grade	Assay	Info.	Per
$\left(\right)$	ESC55130	⊈ surciad	98%		250g

COBALT (II) SULPHATE 7-WATER

 $CoSO_4 \cdot 7H_2O = 281.1g/mol$



UN Class: 9 /UN3077 PG-III **EC No.**: 233-334-2 Danger

Cas No.: 10026-24-1 Index No.: 027-005-00-0

Hazard: H350i H341 H360F H302 H334 H317 H410

Precaution: P201 P273 P281 P285 P302+P352 P304+P341 P309+P311

Cat No.	Grade	Assay	Info.	Per
ESC55138	⊈ surciad	97%		100g

COBALT (II) CARBONATE BASIC

 $CoCO_3$. $[Co(OH)_2]n \cdot H_2O = 516.72g/mol$



UN Class: N/A EC No.: 208-169-4 Dange Cas No.: 57454-67-8 Index No.: 027-010-00-8

Hazard: H350i H341 H360F H334 H317 H410 **Precaution:** P261 P280 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55132	⊈ surolad	Co = 45-50%		500g

COPPER METAL - POWDER - FINE

Cu = 63.55g/mol





Cas No.: 7440-50-8 Index No.: 027-005-00-0

Precaution: P210 P273

Cat No.	Grade	Assay	Info.	Per
ESC55172	⊈ surolad	99%		100g



COPPER METAL

Cu = 63.55g/mol

UN Class: N/A EC No.: 231-159-6 Cas No.: 7440-50-8 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55176	⊈ surplad	98%	Granules	100g
ESC55177	⊈ surplad	98%	Millings	500g

COPPER METAL - FOIL 0.25 MM

Cu = 63.55g/mol

UN Class: N/A EC No : 231-159-6 Cas No.: 7440-50-8 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55180	≜ surplad	99%		250g

COPPER (I) CHLORIDE (CUPROUS CHLORIDE)

CuCl = 99g/mol

Cas No.: 7758-89-6

EC No.: 231-842-9

Index No.: 029-001-00-4

Hazard: H302 H315 H318 H410

UN Class: 8 /UN2802 PG-III

Precaution: P273 P280 P305+P351+P338 P501

Cat No.	Grade	Assay	Info.	Per
ESC55146	⊈ surciad	96%		500g

COPPER (I) OXIDE (CUPROUS OXIDE)

 $Cu_2O = 143.09g/mol$

UN Class: 9 /UN3077 PG-III EC No.: 215-270-7 Warning Cas No.: 1317-39-1 Index No.: 029-002-00-X

Hazard: H302 H410 Precaution: P273 P501

Cat No.	Grade	Assay	Info.	Per
ESC55163	⊈ surciad	95%		100g
ESC55165	⊈ surotad	95%		500g

CHROMIUM (III) CHLORIDE 6-WATER (CHROMIUM TRICHLORIDE)

 $CrCl_3 \cdot 6H_2O = 266.45g/mol$

EC No : 233-038-3 UN Class: N/A Cas No.: 10060-12-5 Index No.: Not listed

Hazard: H302

Precaution: P301+P312 P310

Cat No.	Grade	Assay	Info.	Per
ESC55104	⊈ surotad	95%		500g

COPPER (II) BROMIDE (CUPRIC BROMIDE)

 $CuBr_2 = 223.35g/mol$



UN Class: 8 /UN3260 PG-III EC No.: 232-167-2 Cas No.: 7789-45-9 Index No.: Not listed

Hazard: H302 H314 H400 H410

Precaution: P280 P273 P301+P330+P331 P304+P340 P309+P311 P310

Cat No.	Grade	Assay	Info.	Per
ESC55144	⊈ surciad	98%		100g

COPPER (II) CARBONATE BASIC (CUPRIC CARBONATE BASIC)

 $CuCO_3$. $Cu(OH)_2 = 221.12g/mol$





Warning

IIN Class: N/A FC No : 235-113-6 Cas No.: 12069-69-1 Index No.: Not listed

Hazard: H302 H315 H319 H335 H400 Precaution: P261 P273 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55151	⊈ surplad	Cu = 54%		250g
ESC55152	⊈ surplad	Cu = 54%		500g

COPPER (II) CHLORIDE 2-WATER (CUPRIC CHLORIDE)

CuCl₂ • 2H₂O = 170.48g/mol





UN Class: 8 /UN2802 PG-III EC No.: 231-210-2 Cas No.: 10125-13-0 Index No.: Not listed

Hazard: H302 H315 H319 H335 H400

Precaution: P261 P273 P280 P305+P351+P338 P391

Cat No.	Grade	Assay	Info.	Per
ESC55156	≜ surctad	96%		500g

COPPER (II) NITRATE 3-WATER (CUPRIC NITRATE)

 $Cu(NO_3)_2 \cdot 3H_2O = 241.6g/mol$

Hazard: H272 H302 H315 H319 H400





UN Class: 5.1 /UN1477 PG-II EC No.: 221-838-5 Cas No.: 10031-43-3

Index No.: Not listed

Precaution: P210 P273 P280 P302+P352 P305+P351+P338 P309+P311

Cat No.	Grade	Assay	Info.	Per
ESC55160	⊉ surplad	98.5%		500g



COPPER (II) SULPHATE - ANHYDROUS (CUPRIC SULPHATE)

CuSO₄ = 159.61g/mol



UN Class: 9 /UN3077 PG-III EC No.: 231-847-6 Cas No.: 7758-98-7 Index No.: 029-004-00-0

Hazard: H302 H319 H315 H410

Precaution: P273 P305+P351+P338 P501

Cat No.	Grade	Assay	Info.	Per
ESC55184	⊈ surciad	97%		500g

CRYSTAL VIOLET C.I.42555 (BASIC VIOLET 3, GENTIAN VIOLET)

 $C_{25}H_{30}N_3Cl = 407.98g/mol$







Danger

UN Class: 9 /UN3077 PG-III Cas No : 548-62-9

EC No.: 208-953-6 Index No.: 612-204-00-2

Hazard: H351 H302 H318 H410 Precaution: P273 P280 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55200	⊈ eurolad	N/A		50g

COPPER (II) OXIDE (CUPRIC OXIDE)

CuO = 79.55g/mol

Warning

UN Class: 9 /UN3077 PG-III Cas No.: 1317-38-0

FC No : 215-269-1 Index No.: Not listed

Hazard: H302 H410 Precaution: P273 P501

Cat No.	Grade	Assay	Info.	Per
ESC55167	⊈ surciad	96%	Black powder	250g
ESC55168	⊈ surplad	96%	Black powder	500g

CRYSTAL VIOLET AQUEOUS SOLUTION

 $C_{25}H_{30}N_3Cl = 407.98g/mol$



Warning

UN Class: N/A Cas No.: N/A

Index No.: Not listed

EC No.: N/A

Hazard: H319 H351 H411

Precaution: P273 P281 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55202	⊈ surciad	1%	Aq. Solution	100ml

COPPER (II) SULPHATE 5-WATER (CUPRIC SULPHATE PENTAHYDRATE)

CuSO₄ • 5H₂O = 249.69g/mol



Warning

UN Class: 9 /UN3077 PG-III EC No.: 231-847-6 Cas No.: 7758-99-8 Index No.: 029-004-00-0

Hazard: H302 H319 H315 H410 Precaution: P273 P305+P351+P338 P501

Cat No.	Grade	Assay	Info.	Per
ESC55186	≜ surolad	98%	Black powder	500g

CYCLOHEXANE

 $C_6H_{12} = 84.16g/mol$







Danger

UN Class: 3 /UN1145 PG-II EC No.: 203-806-2 Cas No.: 110-82-7 Index No.: 601-017-00-1

Hazard: H225 H304 H315 H336 H410

Precaution: P210 P261 P273 P301+P330+P331 P331 P501

Cat No.	Grade	Assay	Info.	Per
ESC55206	⊈ surolad	98%	Aq. Solution	500ml

CRESOL RED INDICATOR (O-CRESOLSULFONPHTHALEIN)

 $C_{21}H_{18}O_5S = 382.43g/mol$



UN Class: N/A EC No.: 217-064-2 Warning Cas No.: 1733-12-6 Index No.: Not listed

Hazard: H315 H319 H335

Precaution: P261 P280 P302+P352 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55196	⊈ surolad	N/A	pH 0.2-1.8, pH 7.2-8.8	25g

CRESOL RED 0.02% AQUEOUS SOLUTION

UN Class: N/A Cas No.: 1733-12-6 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Notes: pH 0.2-1.8 - Red to Yellow; pH 7.2-8.8 - Yellow to Red

Cat No.	Grade	Assay	Info.	Per
ESC55192	⊈ surciad	0.02%	Solution	500ml

CYCLOHEXANOL

 $C_6H_{11}OH = 100.16g/mol$



LIN Class: N/A EC No.: 203-630-6 Cas No.: 108-93-0 Index No.: 603-009-00-3

Hazard: H332 H302 H335 H315

Precaution: P261

Notes: High M.P.T Solid at Room temperature

Cat No.	Grade	Assay	Info.	Per
ESC55210	⊈ surciad	99%		500ml

CYCLOHEXANONE

 $CH_3(CH_2)_4CO = 98.14g/mol$



UN Class: 3 /UN1915 PG-III EC No.: 203-631-1 Cas No.: 108-94-1 Index No.: 606-010-00-7

Hazard: H226 H332

Precaution: P210 P243 P280 P304+P340 P313

Cat No.	Grade	Assay	Info.	Per
ESC55213	⊈ surolad	99%		500ml



CYCLOHEXENE (TETRAHYDROBENZENE)

 $C_6H_{10} = 82.15g/mol$



 UN Class: 3 /UN2256 PG-II
 EC No.: 203-807-8
 Danger

 Cas No.: 110-83-8
 Index No.: Not listed

Hazard: H225 H302 H311 H304

Precaution: P210 P280 P304 P301+P312 P331

Cat No.	Grade	Assay	Info.	Per
ESC55215	⊈ surctad	99%		500ml
ESC55216	⊈ surotad	99%		1L

DECANE

 $CH_3(CH_2)_8CH_3 = 142.28g/mol$

 UN Class: 3 /UN2247 PG-III
 EC No.: 204-686-4

 Cas No.: 124-18-5
 Index No.: Not listed

Hazard: H226 H304 **Precaution:** P301+P310 P331

Cat No.	Grade	Assay	Info.	Per
ESC55218	⊈ surciad	99%		25ml

DECANEDIOYL CHLORIDE SEE SEBACOYL CHLORIDE

1,2-DIAMINOETHANE SEE ETHYLENEDIAMINE

1,6-DIAMINOHEXANE (HEXAMETHYLENEDIAMINE)

 $NH_2(CH_2)_6NH_2 = 116.21g/mol$



 UN Class: 8 /UN2280 PG-III
 EC No.: 204-679-6
 Danger

 Cas No.: 124-09-4
 Index No.: 612-104-00-9

Hazard: H314 H302 H312 H335

Precaution: P261 P280 P304 P305+P351+P338 P312

Cat No.	Grade	Assay	Info.	Per
ESC55219	⊈ surctad	98%		25g

2,4-DINITROPHENYLHYDRAZINE (DNPH)

 $(NO_2)_2C_6H_3NHNH_2 = 198.14g/mol$



UN Class: 4.1 /UN3380 PG-I **EC No.:** 204-309-3 Danger

Cas No.: 119-26-6 Index No.: Not listed

Hazard: H228 H302 **Precaution:** P210 P240 P280 P302 P312

Cat No.	Grade	Assay	Info.	Per
ESC54772	⊈ surctad	97%	SURCHARGE	50g

DIBUTYL PHTHALATE (N-BUTYL PHTHALATE)

 C_6H_4 -1,2-[$CO_2(CH_2)_3CH_3$]₂ = 278.35g/mol



Hazard: H360Df H400

Precaution: P201 P273 P308+P313

Cat No.	Grade	Assay	Info.	Per
ESC55221	⊈ surcted	99%		1L

DICHLOROACETIC ACID

Cl₂CHCOOH = 128.94g/mol

UN Class: 8 /UN1764 PG-II



EC No.: 201-207-0 Danger

Cas No.: 79-43-6 Index No.: 607-066-00-5

Hazard: H314 H400

Precaution: P273 P280 P305+P351+P338 P310

Cat No.	Grade	Assay	Info.	Per
ESC55223	⊈ surctad	98%		100ml

1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)

 $C_6H_4Cl_2 = 147g/mol$

Cas No.: 106-46-7



EC No.: 203-400-5 Warning Index No.: 602-035-00-2

Hazard: H351 H319 H410

UN Class: 9 /UN3077 PG-III

Precaution: P201 P273 P281 P305+P351+P338 P308+P313

Cat No.	Grade	Assay	Info.	Per
ESC55225	⊈ surplad	97%		250g

1-6-DIAMINOHEXANE 5% AQUEOUS SOLUTION

N/A



Hazard: H315 H319

Precaution: P280 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55220	⊈ surciad	5%	Aq. Solution	250ml

DICHLOROMETHANE (METHYLENE CHLORIDE)

 $CH_2Cl_2 = 84.93g/mol$



Warning

Hazard: H351

Precaution: P260 P281 P308+P313 P501 P403+P235

Cat No.	Grade	Assay	Info.	Per
ESC55240	⊈ surotad	98%		2.5L



DIPHENYLAMINE

 $(C_6H_5)_2NH = 169.23g/mol$



 UN Class: 9 /UN3077 PG-III
 EC No.: 204-539-4
 Danger

 Cas No.: 122-39-4
 Index No.: 612-026-00-5

Hazard: H331 H311 H301 H373 H410

Precaution: P273 P280 P302+P352 P304+P340 P309 P311

Cat No.	Grade	Assay	Info.	Per
ESC55242	⊈ surciad	99%		100g

EDTA DISODIUM SALT (ETHYLENEDIAMINETETRAACETIC ACID)

 $C_{10}H_{14}N_2Na_2O_8 \cdot 2H_2O = 372.24g/mol$



 UN Class: N/A
 EC No.: 205-358-3
 Warning

 Cas No.: 6381-92-6
 Index No.: Not listed

Hazard: H332 H373 Precaution: P260

Cat No.	Grade	Assay	Info.	Per
ESC55268	⊈ surplad	98%		500g

2,6-DICHLOROPHENOLINDOPHENOL (DCPIP)

 UN Class: N/A
 EC No.: N/A

 Cas No.: 620-45-1
 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

	Cat No.	Grade	Assay	Info.	Per
	ESC54778	⊈ aumlad	96%	Powder	1g
	ESC54779	⊈ surplad	96%	Powder	5g

EOSIN C.I.45380 (ACID RED 87)

N/A

09-6 Warning

UN Class: N/A **EC No.**: 241-409-6

Cas No.: 17372-87-1 Index No.: Not listed

Hazard: H319

Precaution: P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55276	⊈ surciad	N/A	Powder	5g

DIETHYL ETHER (ETHOXYETHANE)

 $(CH_3CH_2)_2O = 74.12g/mol$



 UN Class: 3 /UN1155 PG-I
 EC No.: 200-467-2
 Danger

 Cas No.: 60-29-7
 Index No.: 603-022-00-4

Hazard: H224 H302 H336 EUH019 EUH066

Precaution: P210 P261

Cat No.	Grade	Assay	Info.	Per
ESC55244	⊈ surciad	98%	SURCHARGE	1L

EOSIN 5% AQUEOUS SOLUTION

 UN Class: N/A
 EC No.: N/A

 Cas No.: N/A
 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55272	⊈ surciad	5%	Aq. Solution	100ml

DITHIZONE (1,5-DIPHENYL-3-THIOCARBAZONE)

 $C_6H_5NHNHCSN=NC_6H_5=256.32g/mol$



 UN Class: N/A
 EC No.: 200-454-1
 Warning

 Cas No.: 60-10-6
 Index No.: Not listed

Hazard: H315 H319 H335

Precaution: P280 P302+P352 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55246	⊈ surotad	98%		5g

ERIOCHROME BLACK T C.I.14645

 $C_2OH_{12}N_3NaO_7S = 461.38g/mol$

UN Class: N/A EC No.: 241-409-6
Cas No.: 1787-61-7 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55280	⊈ surolad	N/A	6.2 - 11.55	50g
ESC55281	⊈ surolad	N/A	6.2 - 11.55	100g

DUTCH METAL LEAF

 UN Class: N/A
 EC No.: N/A

 Cas No.: N/A
 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55264	≜ surctad	N/A	140 x 150mm	Bk25

ETHANOL (ETHYL ALCOHOL)

 $C_2H_5OH = 46.07g/mol$



 UN Class: 3 /UN1170 PG-II
 EC No.: 200-578-6
 Danger

 Cas No.: 64-17-5
 Index No.: 603-002-00-5

Hazard: H225 Precaution: P210

Cat No.	Grade	Assay	Info.	Per
ESC55288	⊈ surplad	99.9%		2.5L



ETHANAL SEE ACETALDEHYDE

ETHANEDIOIC ACID SEE OXALIC ACID

ETHANOIC ACID SEE ACETIC ACID

ETHANOIC ANHYDRIDE SEE ACETIC ANHYDRIDE

ETHOXYETHANE SEE DIETHYL ETHER

ETHYL ACETATE (ETHYL ETHANOATE)

 $CH_3COOC_2H_5 = 88.11g/mol$

(1) (1) 4°C

Hazard: H225 H319 H336

Precaution: P210 P261 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55284	⊈ surplad	99%		2.5L

ETHYLAMINE 70% W/W SOLUTION (70% W/W IN WATER)

 $C_2H_5NH_2 = 45.08g/mol$



 UN Class: 2.1 /UN1036 PG-II
 EC No.: 200-834-7
 Danger

 Cas No.: 75-04-7
 Index No.: 612-002-00-4

Hazard: H225 H302 H311 H314 H335

Precaution: P210 P261 P280 P305+P351+P338 P310

Cat No.	Grade	Assay	Info.	Per
ESC55296	⊈ surplad	70%		1L
ESC55297	⊈ surctad	70%		2.5L

ETHYL-4-AMINOBENZOATE (BENZOCAINE)

 $NH_2C_6H_4COOC_2H_5 = 165.19g/mol$



UN Class: N/A EC No.: 202-303-5
Cas No.: 94-09-7 Index No.: Not listed

Hazard: H317

Precaution: P280 P302+P352

Cat No.	Grade	Assay	Info.	Per
ESC55291	⊈ surciad	99%		50g

ETHYL BENZOATE

 $C_6H_5COOC_2H_5 = 150.17g/mol$

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55292	≜ surotad	99%		100ml

ETHYLENEDIAMINE (1,2-DIAMINOETHANE)

 $NH_2CH_2CH_2NH_2 = 60.1g/mol$



Hazard: H226 H312 H302 H314 H334 H317

Precaution: P210 P243 P261 P280 P285 P301+P330+P331 P302+P352

P304+P340 P309

Cat No.	Grade	Assay	Info.	Per	
ESC55308	⊈ surolad	97%		1L	Ι,

ETHYL FORMATE (FORMIC ACID ETHYL ESTER)

 $HCOOC_2H_5 = 74.08g/mol$



Hazard: H225 H332 H302 H319 H335

Precaution: P210 P240 P280 P304+P340 P305+P351+P338 P309

Cat No.	Grade	Assay	Info.	Per
ESC55310	⊈ aurolad	98%		100ml

ETHYLENE GLYCOL (ETHANE-1,2-DIOL)

HOCH₂CH₂OH = 62.07g/mol



 UN Class: N/A
 EC No.: 203-473-3
 Warning

 Cas No.: 107-21-1
 Index No.: 603-027-00-1

Hazard: H302

Precaution: P301+P312

Cat No.	Grade	Assay	Info.	Per
ESC55304	⊈ surolad sack action	99%		2.5L

EVOLVE CH15 (COLD DEGREASING AGENT)

N/A



 UN Class: 3 /UN3295 PG-III
 EC No.: N/A

 Cas No.: N/A
 Index No.: Not listed

Hazard: H350 H340 H304 EUH066

Precaution: P201 P281 P301+P310 P308+P313

Cat No.	Grade	Assay	Info.	Per
ESC55306	⊈ surciad	N/A		500ml

FEHLING'S SOLUTION NO.1 (COPPER SULPHATE SOLUTION)

N/A



 UN Class: N/A
 EC No.: N/A
 Warning

 Cas No.: N/A
 Index No.: Not listed

Hazard: H411 Precaution: P273

Cat No.	Grade	Assay	Info.	Per
ESC55312	⊈ aurolad	N/A		1L



FEHLING'S SOLUTION NO.2 (ALKALINE TARTRATE)

N/A



UN Class: 8 /UN1824 PG-II EC No · N/A Danger Cas No.: N/A Index No.: Not listed

Hazard: H314

Precaution: P260 P280 P301+P330+P331 P309+P311

Cat No.	Grade	Assay	Info.	Per
ESC55316	⊈ surciad	N/A		1L

FERROIN INDICATOR SOLUTION (1,10-PHENANTHROLINE IRONII SULFATE COMPLEX)

N/A



UN Class: N/A EC No.: N/A Warning

Cas No.: N/A Index No.: Not listed

Hazard: H411 Precaution: P273

Cat No.	Grade	Assay	Info.	Per
ESC55318	≜ surplad	N/A		100ml

FLUORESCEIN C.I.45350 (ACID YELLOW 73)

 $C_{20}H_{12}O_5 = 332.31g/mol$



UN Class: N/A EC No.: 219-031-8 Cas No.: 2321-07-5 Index No.: Not listed

Hazard: H319

Precaution: P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55320	⊉ aurolad	N/A		5g

FORMALDEHYDE (METHANAL)

HCHO = 30.03g/mol



Danger

UN Class: 8 /UN2209 PG-III EC No : 200-001-8 Cas No.: 50-00-0 Index No.: 605-001-00-5

Hazard: H301 H311 H314 H317 H331 H335 H341 H350 H371 Precaution: P260 P261 P280 P281 P304+P340 P305+P351+P338

P309+P311

Cat No.	Grade	Assay	Info.	Per
ESC55322	⊈ surotad		38-40% w/v	2.5L

FRENCH CHALK (TALC)

UN Class: N/A EC No.: 238-87-9 Cas No.: 14807-96-6 Index No.: Not listed

Hazard: H332

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55326	≜ surctad	N/A		1kg

D (-) FRUCTOSE (D-LEVULOSE)

 $C_6H_{12}O_6 = 180.16g/mol$

UN Class: N/A EC No.: 200-333-3 Cas No : 57-48-7 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55228	⊈ surctad	98%		500g

FUCHSIN ACID STAIN C.I.42685 (ACID VIOLET 19)

 $C_{20}H_{17}N_3Na_2O_9S_3 = 585.54g/mol$

UN Class: N/A EC No.: 221-816-5 Cas No.: 3244-88-0 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55328	⊈ surciad	98%		50g
ESC55329	⊈ surctad	98%		100g

FUCHSIN BASIC STAIN C.I.42510 (BASIC VIOLET 14)

N/A



Danger

UN Class: N/A EC No.: 211-189-6 Cas No.: 58969-01-0 Index No.: Not listed

Hazard: H302 H351 Precaution: P281

Cat No.	Grade	Assay	Info.	Per
ESC55330	⊈ surplad	N/A		5g

FORMIC ACID (METHANOIC ACID)

HCOOH = 46.03g/mol



UN Class: 8(3) /UN1779 PG-II EC No.: 200-579-1 Danger Cas No.: 64-18-6

Index No.: 607-001-00-0

Hazard: H314

Precaution: P260 P280 P305+P351+P338 P310

Cat No.	Grade	Assay	Info.	Per
ESC55324	⊈ surolad	90%		2.5L

D (+) GALACTOSE ANHYDROUS

 $C_6H_{12}O_6 = 180.16g/mol$

UN Class: N/A EC No.: 200-416-4 Cas No.: 59-23-4 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

I.					
	Cat No.	Grade	Assay	Info.	Per
	ESC55230	⊈ surciad	98%		25g



GELATINE POWDER

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55333	⊈ surciad	N/A		500g

GENTIAN VIOLET SEE CRYSTAL VIOLET

D (+) GLUCOSE ANHYDROUS (DEXTROSE)

 $C_6H_{12}O_6 = 180.16g/mol$

 UN Class: N/A
 EC No.: 200-075-1

 Cas No.: 50-99-7
 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55236	⊈ surctad	98%		250g

GIBBERELLIC ACID

 $C_{19}H_{22}O_6 = 346.37g/mol$



 UN Class: N/A
 EC No.: 201-001-0
 Warm

 Cas No.: 77-06-5
 Index No.: Not listed

Hazard: H319

Precaution: P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55334	⊈ surolad	97%		1g

GLASS WOOL

 UN Class: N/A
 EC No.: N/A

 Cas No.: N/A
 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55335	⊈ surctad	N/A		500g

D (+) GLUCOSE 1-WATER (DEXTROSE MONOHYDRATE)

 $C_6H_{12}O_6 \cdot H_2O = 198.17g/mol$

UN Class: N/A EC No.: 218-914-5
Cas No.: 14431-43-7 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55234	⊈ surolad	98%		500g

GLYCEROL TRIACETATE (TRIACETIN)

 $(CH_3COO)_3C_3H_5 = 218.21g/mol$

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55342	⊈ surplad	98%		500ml

GLUCOSE-1-PHOSPHATE DISODIUM SALT

 $C_6H_{11}O_9PNa_2 \cdot xH_2O = 304.1g/mol$

UN Class: N/A EC No.: 260-154-1
Cas No.: 56401-20-8 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assav	Info.	Per
		,		
ESC55336	⊉ surolad	98%		1g
ESC55337	⊈ surciad	98%		5g

L-GLUTAMIC ACID

 $HO_{2}CCH_{2}CH_{2}CH(NH_{2})CO_{2}H = 147.13g/mol$

 UN Class: N/A
 EC No.: 200-293-7

 Cas No.: 56-86-0
 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55339	⊈ surciad	99%		100g

GLYCEROL (GLYCERINE OR PROPANE-1,2,3-TRIOL)

HOCH₂CH(OH)CH₂OH = 92.09g/mol



Warning

UN Class: N/A EC No.: 200-289-5
Cas No.: 56-81-5 Index No.: Not listed

Tel: +44 (0)203 8685740

Hazard: H319

Precaution: P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55340	⊈ surplad	99%		1L
ESC55341	⊈ surciad	99%		2.5L



GLYCINE (AMINOACETIC ACID)

NH₂CH₂COOH = 75.07g/mol

UN Class: N/A EC No.: 200-272-2 Cas No : 56-40-6 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55344	⊈ surciad	98.5%		100g

HEPTAN-1-OL (HEPTYL ALCOHOL)

CH₃(CH₂)₆OH = 116.2g/mol



Danger

UN Class: N/A EC No.: 203-897-9

Cas No : 111-70-6 Index No.: Not listed

Hazard: H302 H312 H319

Precaution: P280 P302+P352 P305+P351+P338 P309+P310

Cat No.	Grade	Assay	Info.	Per
ESC55352	⊉ surctad	>99%		100ml

GRAM'S IODINE SOLUTION

LIN Class: N/A EC No.: N/A Cas No.: N/A Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55350	≜ surplad	N/A		1L

HEXANE FRACTION FROM PETROLEUM

 $CH_3(CH_2)_4CH_3 = 86.18g/mol$



UN Class: 3 /UN1208 PG-II EC No.: 203-777-6 Cas No.: 110-54-3 Index No.: 601-037-00-0

Hazard: H225 H361f H304 H373 H315 H336 H411 Precaution: P210 P261 P273 P281 P301+P310 P331

Cat No.	Grade	Assay	Info.	Per
ESC55654	⊈ surciad	85%		500ml
ESC55655	⊈ eurolad	85%		2.5L

GRAPHITE (CARBON POWDER)

C = 12.01g/mol



UN Class: N/A EC No.: 231-955-3 Warning Cas No.: 7782-42-5

Index No.: Not listed

Hazard: H319 H335

Precaution: P261 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC553348	⊈ surctad	95%	Powder	1kg

HEXANE-1,6-DIAMINE SEE 1,6-DIAMINOHEXANE

HEXANEDIOIC ACID SEE ADIPIC ACID

GUM ARABIC SEE ACACIA POWDER

HEPTANE FRACTION FROM PETROLEUM

 $\mathrm{CH_3}(\mathrm{CH_2})_5$. $\mathrm{CH_3} = 100.21 \mathrm{g/mol}$



UN Class: 3 /UN1206 PG-II EC No.: 205-563-8 Cas No.: 142-82-5 Index No.: 601-008-00-2

Hazard: H225 H304 H315 H336 H410

Precaution: P210 P241 P301+P310 P303+P361+P353 P405 P501

Cat No.	Grade	Assay	Info.	Per
ESC55648	⊈ surciad	85%		2.5L

HEXANOIC ACID (CAPROIC ACID)

 $CH_3(CH_2)_4COOH = 116.16g/mol$



UN Class: 8 /UN2829 PG-III EC No.: 205-550-7 Cas No.: 142-62-1 Index No.: Not listed

Hazard: H311 H314 H331

Precaution: P261 P280 P305+P351+P338 P310

Cat No.	Grade	Assay	Info.	Per
ESC55656	⊈ surctad	99%		100ml

N-HEXANE

 $CH_3(CH_2)_4CH_3 = 86.18g/mol$



UN Class: 3 /UN1208 PG-II EC No.: 203-777-6 Danger Cas No : 110-54-3 Index No.: 601-037-00-0

Hazard: H225 H361f H304 H373 H315 H336 H411 Precaution: P210 P261 P273 P281 P301+P310 P331

Cat No.	Grade	Assay	Info.	Per
ESC55652	⊈ surplad	97%		2.5L

HEXAN-1-OL (HEXYL ALCOHOL)

 $\mathrm{CH_3}(\mathrm{CH_2})_5\mathrm{OH} = 102.17\mathrm{g/mol}$



UN Class: 3 /UN2282 PG-III Cas No.: 111-27-3

EC No.: 203-852-3 Index No.: 603-059-00-6

Hazard: H302 Precaution: P301+P312

Cat No.	Grade	Assay	Info.	Per
ESC55657	≜ surciad	98%		500ml



HEX-1-ENE

CH₃(CH₂)₃CH=CH₂ = 84.16g/mol

UN Class: 3 /UN2370 PG-II EC No.: 209-753-1 Cas No.: 592-41-6

Hazard: H225 H304

Precaution: P210 P301+P310 P331

Cat No.	Grade	Assay	Info.	Per
ESC55658	⊈ surplad	98%		100ml

Index No.: Not listed

HYDROCHLORIC ACID 1.0M (1.0N)

Hcl = 36.46g/mol



UN Class: 8 /UN1789 PG-III EC No.: 231-595-7 Cas No.: 7647-01-0 Index No.: 017-002-01-X

Hazard: H315

Precaution: P261 P280 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55357	⊈ surplad	1.0M		2.5L

HYDROCHLORIC ACID - 36-38%

Hcl = 36.46g/mol

Danger

Danger

UN Class: 8 /UN1789 PG-II EC No.: 231-595-7 Cas No.: 7647-01-0 Index No.: 017-002-01-X

Hazard: H314 H335 H290

Precaution: P261 P280 P305+P351+P338 P310

11664416111 2011 200 1 600 1 6011 600 1 616					
Cat No.	Grade	Assay	Info.	Per	
ESC55367	⊈ surciad	37%		1L	
ESC55368	⊈ surplad	36-38%	SURCHARGE	1L	
ESC55369	⊈ surplad	36-38%		2.5L	

HYDROCHLORIC ACID 2M

Hcl = 36.46g/mol

Warning

UN Class: 8 /UN1789 PG-III EC No.: 231-595-7 Warning Cas No.: 7647-01-0 Index No.: 017-002-01-X

Hazard: H314 H315 H335

Precaution: P261 P302+352 P304+340 P305+P351+P338 P309+P311

Cat No.	Grade	Assay	Info.	Per
ESC55360	⊈ surplad	2.0M	Ampoule	1L

HYDROCHLORIC ACID 0.1M (0.1N)

Hcl = 36.46g/mol

UN Class: 8 /UN1789 PG-III EC No.: 231-595-7 Cas No.: 7647-01-0 Index No.: 017-002-01-X

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55355	<u>Asurplad</u>	0.1M		2.5L

HYDROCHLORIC ACID 4M (4N)

Hcl = 36.46g/mol



UN Class: 8 /UN1789 PG-III EC No.: 231-595-7 Cas No.: 7647-01-0 Index No.: 017-002-01-X

Hazard: H315 H319 H335

Precaution: P261 P302+P352 P304+P340 P305+P351+P338 P309+P311

Cat No.	Grade	Assay	Info.	Per
ESC55362	⊈ surplad	4.0M	Ampoule	1L

HYDROCHLORIC ACID 1.0M (1.0N) CVS

Hcl = 36.46g/mol



UN Class: 8 /UN1789 PG-III EC No.: 231-595-7 Danger Cas No.: 7647-01-0 Index No.: 017-002-01-X Hazard: H314 H335

Precaution: P261 P280 P305+P351+P338 P310

Notes: 6 x 1M 100ml ampoules, each makes 1L of 0.1M solution. Chemical info shown for ampoule not diluted solution.

Cat No.	Grade	Assay	Info.	Per
ESC55356	⊈ surolad	0.1M	Ampoule	6

HYDROGEL (SODIUM POLYACRYLATE)

(C₃H₃NaO₂)n

UN Class: N/A EC No.: N/A Cas No.: 9003-04-7 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55372	⊉ surolad	95%		500g



HYDROQUINONE (BENZENE-1,4-DIOL OR QUINOL)

 $C_6H_4(OH)_2 = 110.11g/mol$



UN Class: 9 /UN3077 PG-III EC No.: 204-617-8 Cas No.: 123-31-9 Index No.: 604-005-00-4

Hazard: H351 H341 H302 H318 H317 H400

Precaution: P273 P280 P305+P351+P338 P301+P312

Cat No.	Grade	Assay	Info.	Per
ESC55374	⊉ surolad	99%		100g

HYDROGEN PEROXIDE 20 VOLS (DIOXIDANE)

 $H_2O_2 = 34.01g/mol$



EC No.: 231-765-0 UN Class: N/A Warning Cas No.: 7722-84-1 Index No.: 008-003-00-9

Hazard: H302 H319

Precaution: P305+P351+P338 P337+P313

Cat No.	Grade	Assay	Info.	Per
ESC55380	and a constant	6% w/v		2L

HYDROGEN PEROXIDE 100 VOLS (DIOXIDANE)

 $H_2O_2 = 34.01g/mol$



UN Class: 5.1 /UN2014 PG-II EC No.: 231-765-0 Danger Cas No.: 7722-84-1 Index No.: 008-003-00-9

Hazard: H302 H315 H318 H355

Precaution: P261 P280 P301+P312 P302+P351 P304+P340

P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55376	⊈ surplad	29-30%		1L
ESC55378	⊈ surolad	29-30%		500ml

HYDROXYLAMMONIUM CHLORIDE (HYDROXYLAMINE HYDROCHLORIDE)

 $NH_2OH \cdot HC1 = 69.49g/mol$



UN Class: 8(6.1) /UN2923 PG-II EC No.: 226-798-2 Warning Cas No.: 5470-11-1 Index No.: 612-123-00-2 Hazard: H290 H351 H312 H302 H373 H319 H315 H317 H400 Precaution: P201 P273 P281 P302+P352 P305+P351+P338 P309+P311

Cat No.	Grade	Assay	Info.	Per
ESC55382	⊈ surplad	98%		100g

INDIGO CARMINE C.I.73015

N/A



UN Class: N/A EC No.: 212-728-8 Warning Cas No.: 860-22-0 Index No.: Not listed

Hazard: H302

Precaution: P264 P270 P301+P312 P330 P501

Cat No.	Grade	Assay	Info.	Per
ESC55384	⊈ surciad	N/A	11.4- 13.0	5g

INDOL-3-YL-ACETIC ACID (IAA)

 $C_{10}H_9NO_2 = 175.18g/mol$

FC No : 201-748-2 UN Class: N/A Cas No.: 87-51-4 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55386	<u>Asimiat</u>	96%		1g

IODINE

 $I_2 = 253.81 g/mol$



UN Class: 8(6.1) /UN3495 PG-III EC No.: 231-442-4 Cas No.: 7553-56-2 Index No.: 053-001-00-3

Hazard: H332 H312 H400 Precaution: P273 P280

Cat No.	Grade	Assay	Info.	Per
ESC55395	⊈ surciad	99.5%		100g

IODINE 0.05M (0.1N) SOLUTION

 $I_2 = 253.81 \mathrm{g/mol}$

UN Class: 8(6.1) /UN3495 PG-III EC No.: 231-442-4 Cas No.: 7553-56-2 Index No.: 053-001-00-3

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55389	⊈ surolad	0.05M	Solution	500ml
ESC55388		0.05M	Solution	1L

IODINE 1% SOLUTION IN KI

UN Class: N/A EC No.: N/A Cas No.: N/A Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55392	⊈ sumlad	1%		500ml
ESC55393	⊈ sumlad	1%		1L



1-IODOBUTANE (BUTYL IODIDE)

 $CH_3(CH_2)_3I = 184.02g/mol$

UN Class: 3 /UN1993 PG-III Cas No.: 542-69-8

EC No.: 208-824-4 Index No.: Not listed

Hazard: H226 H331 Precaution: P210 P405 P501

Cat No.	Grade	Assay	Info.	Per
ESC55398	⊈ surolad	99%		25ml

IRON (II) SULPHIDE LUMP (FERROUS SULPHIDE)

FeS = 87.91g/mol

EC No.: 215-268-6

UN Class: N/A Cas No.: 1317-37-9

Index No.: Not listed

Hazard: H400 Precaution: P273

Cat No.	Grade	Assay	Info.	Per
ESC55420	⊈ surotad	90%		500g

IODOETHANE (ETHYL IODIDE)

 $C_2H_5I = 155.97g/mol$

Danger

UN Class: 3 /UN1993 PG-III EC No.: 200-833-1 Cas No : 75-03-6 Index No.: Not listed

Hazard: H302 H315 H317 H319 H334

Precaution: P261 P280 P305+P351+P338 P342+P311

Cat No.	Grade	Assay	Info.	Per
ESC55400	⊈ surctad	99%		25ml

IRON (II) CHLORIDE 4-WATER (FERROUS CHLORIDE)

 $FeCl_2 \cdot 4H_2O = 198.81g/mol$

Danger

Warning

UN Class: 8 /UN3260 PG-III EC No.: 231-843-4 Cas No : 13478-10-9 Index No.: Not listed

Hazard: H302 H315 H318

Precaution: P280 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55409	⊈ surciad	99%		500g

IRON (II) OXALATE

Fe₂CO₄ • 2H₂O = 179.89g/mol



UN Class: N/A EC No.: N/A Warning Cas No : 6047-25-2 Index No.: 607-007-00-3

Hazard: H302 H312

Precaution: P280 P301+P312

Cat No.	Grade	Assay	Info.	Per
ESC55412	⊈ surplad	98%		100g

IRON METAL - FILINGS

Fe = 55.85g/mol

UN Class: N/A EC No.: 231-096-4 Cas No.: 7439-89-6 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55402	≜ surolad	97%	Coarse (1.0mm)	500g

IRON (II,III) OXIDE (MAGNETITE)

 $Fe_3O_4 = 231.53g/mol$

UN Class: 3 /UN1294 PG-II EC No.: N/A

Cas No.: N/A Index No.: 607-007-00-3

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55436	⊈ surotad	N/A		100g

IRON POWDER REDUCED BY HYDROGEN

Fe = 55.85g/mol

UN Class: 4.1 /UN3089 PG-III EC No.: 231-096-4 Cas No.: 7439-89-6 Index No.: Not listed

Hazard: H228

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55406	⊈ surplad	96%		500g

IRON (II) SULPHATE 7-WATER (FERROUS SULPHATE)

 $FeSO_4 \cdot 7H_2O = 278.01g/mol$



UN Class: N/A EC No.: 231-753-5 Cas No : 7782-63-0

Index No.: 026-003-01-4

Hazard: H302 H319 H315 Precaution: P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55416	⊈ surplad	98%		500g

United Kingdom Tel: +44 (0)203 8685740



IRON (III) CHLORIDE 6-WATER (FERRIC CHLORIDE)

FeCl₃ • 6H₂O = 270.3g/mol



 UN Class: 8 /UN3260 PG-III
 EC No.: 231-729-4

 Cas No.: 10025-77-1
 Index No.: Not listed

Hazard: H302 H314

Precaution: P280 P305+P351+P338 P310

Cat No.	Grade	Assay	Info.	Per
ESC55424	⊈ surctad	98%		500g

IRON (III) CHLORIDE ANHYDROUS (FERRIC CHLORIDE)

FeCl₃ = 162.2g/mol



 UN Class: 8 /UN1773 PG-III
 EC No.: 231-729-4
 Danger

 Cas No.: 7705-08-0
 Index No.: Not listed

Hazard: H302 H315 H318 H411

Precaution: P273 P280 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55428	⊈ surciad	96%		500g

IRON (III) NITRATE 9-WATER (FERRIC NITRATE)

 $Fe(NO_3)_3 \cdot 9H_2O = 404g/mol$



 UN Class: 5.1 /UN1466 PG-III
 EC No.: 233-899-5

 Cas No.: 7782-61-8
 Index No.: Not listed

Hazard: H272 H315 H319 H335

Precaution: P220 P261 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55432	⊈ surotad	98%		500g

IRON (III) OXIDE (FERRIC OXIDE)

 $Fe_2O_3 = 159.69g/mol$



Warning

 UN Class: N/A
 EC No.: 215-168-2
 Warning

 Cas No.: 1309-37-1
 Index No.: Not listed

Hazard: H315 H319 H335
Precaution: P261 P305+P351+P338
Notes: Red/Brown in colour

 Cat No.
 Grade
 Assay
 Info.
 Per

 ESC55438
 \$\mathbb{\textit{2}}_{1}\tau_{1}\tau_{2}\tau_{2}\tau_{3

IRON (III) SULPHATE HYDRATED TECH (FERRIC SULPHATE)

 $Fe_2(SO_4)_3 \cdot xH_2O = 399.88g/mol$



UN Class: N/A EC No.: 233-072-9
Cas No.: 15244-10-7 Index No.: Not listed

Hazard: H302 H319 H335

Precaution: P261 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55440	⊈ surctad	95%		500g

JANUS GREEN STAIN C.I.11050

 UN Class: N/A
 EC No.: 220-695-6

 Cas No.: 2869-83-2
 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55442	<u>#surplad</u>	N/A	Powder	1g
ESC55443	⊈ surplad	1%	Powder	100ml

KAOLIN LIGHT (ALUMINUM SILICATE HYDROXIDE)

 \sim Al₂Si₂O₅(OH)₄ = 258.16g/mol

 UN Class: N/A
 EC No.: 310-194-1

 Cas No.: 1332-58-7
 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55444	⊈ surciad	N/A		1kg

KEROSENE WHITE SEE PARAFFIN OIL

KINETIN

 $C_{10}H_9N_5O = 215.22g/mol$

UN Class: N/A EC No.: 208-382-2
Cas No.: 525-79-1 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55445	⊈ surplad	99%		1kg

DL-LACTIC ACID (2-HYDROXYPROPIONIC ACID)

CH₃CH(OH)COOH = 90.08g/mol



Hazard: H315 H318

Precaution: P280 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per	
ESC55459	⊈ surotad	88%		500ml	,

LACTOSE

 $C_{12}H_{22}O_{11} \cdot H_2O = 360.31g/mol$

 UN Class: N/A
 EC No.: 200-559-2

 Cas No.: 64044-51-5
 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55460	⊈ surplad	98%		500g



LATEX

(C₃H₃NaO₂)n

 UN Class: N/A
 EC No.: N/A

 Cas No.: 9003-04-7
 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55462	⊈ surplad	N/A		500ml

DI-LAUROYL PEROXIDE (DODECANOYL PEROXIDE)

 $[CH_3(CH_2)_{10}CO]_2O_2 = 398.62g/mol$

 UN Class: 5.2 /UN3106 PG-II
 EC No.: 203-326-3
 Dan

 Cas No.: 105-74-8
 Index No.: 617-003-00-3

Hazard: H242

Precaution: P220 P280 P410 P420

Cat No.	Grade	Assay	Info.	Per
ESC55463	⊈ surplad	98%		25g

LEAD METAL

Pb = 207.2g/mol



 UN Class: N/A
 EC No.: 231-100-4
 Danger

 Cas No.: 7439-92-1
 Index No.: Not listed

Hazard: H302 H332 H360 H373 H410 **Precaution:** P201 P273 P308+P313

Cat No.	Grade	Assay	Info.	Per
ESC55474		N/A	Shot 3mm dia.	500g

LEAD (II) ACETATE 3-WATER (LEAD (II) ETHANOATE)

 $Pb(CH_3CO_2)_2 \bullet 3H_2O = 379.33g/mol$



 UN Class: 6.1 /UN1616 PG-III
 EC No.: 206-104-4
 Danger

 Cas No.: 6080-56-4
 Index No.: 082-005-00-8

Hazard: H360Df H373 H410

Precaution: P201 P273 P308+P313 P501

Cat No.	Grade	Assay	Info.	Per
ESC55476	⊈ surplad	98%		500g

LEAD (II) BROMIDE

 $PbBr_2 = 367.01 g/mol$



 UN Class: 6.1 /UN2291 PG-III
 EC No.: 233-084-4
 Danger

 Cas No.: 10031-22-8
 Index No.: 082-001-00-6

Hazard: H360Df H332 H302 H373 H410 **Precaution:** P201 P273 P308+P313 P501

Cat No.	Grade	Assay	Info.	Per
CHE291647	⊈ sumlad	98%		100g
CHE291648	⊈ surotad	98%		250g

LEAD (II,IV) OXIDE (RED LEAD)

 $Pb_3O_4 = 685.6g/mol$



UN Class: 5.1 /UN1479 PG-II **EC No.:** 215-235-6 Danger

Cas No.: 1314-41-6 Index No.: 082-001-00-6

Hazard: H360Df H302 H332 H272 H373 H410 **Precaution:** P201 P220 P273 P308+P313 P501

Cat No.	Grade	Assay	Info.	Per
ESC55488	⊈ surciad	97%		500g

LEAD (IV) OXIDE (LEAD DIOXIDE)

 $PbO_2 = 239.2g/mol$



Hazard: H360Df H302 H332 H272 H373 H410 **Precaution:** P201 P220 P273 P308+P313 P501

Cat No.	Grade	Assay	Info.	Per
ESC55496	⊈ surplad	95%		250g

LEAD (II) SULPHATE

PbSO₄ = 303.26g/mol



 UN Class: 9 /UN3077 PG-III
 EC No.: 231-198-9
 Danger

 Cas No.: 7446-14-2
 Index No.: 082-001-00-6

Hazard: H360Df H332 H302 H373 H410 **Precaution:** P201 P273 P308+P313 P501

Cat No.	Grade	Assay	Info.	Price	Per
ESC55492	⊈ surciad	99%		15.95	100g

LEAD (II) SULPHIDE

UN Class: 9 /UN3077 PG-III

PbS = 239.27g/mol



EC No.: 215-246-6





Cas No.: 1314-87-0 **Index No.:** 082-001-00-6

Hazard: H360Df H332 H302 H373 H410 **Precaution:** P201 P273 P308+P313 P501

Cat No.	Grade	Assay	Info.	Per
ESC55494	⊈ surciad	98%		100g

LEISHMAN'S STAIN

 UN Class: N/A
 EC No.: 235-732-1

 Cas No.: 12627-53-1
 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55499	⊈ surplad	N/A		5g



DL-LEUCINE

 $(CH_3)_2CHCH_2CH(NH_2)CO_2H = 131.17g/mol$

 UN Class: N/A
 EC No.: 231-729-4

 Cas No.: 328-39-2
 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55501	⊈ surotad	99%		5g

LIMONENE (S)-(-)-

 $C_{10}H_{16} = 136.23g/mol$



Warning

Hazard: H226 H315 H317 H410

Precaution: P210 P241 P303+P361+P353

Cat No.	Grade	Assay	Info.	Per
ESC55508	⊈ surciad	97%		25ml

L-LEUCINE

(CH₃)₂CHCH₂CH(NH₂)CO₂H = 131.17g/mol

UN Class: N/A EC No.: 200-522-0
Cas No.: 61-90-5 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55502	⊈ surciad	99%		25g

LITHIUM METAL IN LIQUID PARAFFIN

Li = 6.94g/mol



 UN Class: 4.3 /UN1415 PG-I
 EC No.: 231-102-5
 Danger

 Cas No.: 7439-93-2
 Index No.: 003-001-00-4

Hazard: H260 H314

Precaution: P223 P231+P232 P280 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55510	⊈ sumlad	99%	SURCHARGE	10g
ESC55511	⊈ surplad	99%	SURCHARGE	25g

LIME WATER (LIMEWATER)

 $Ca(OH)_2 = 74.09g/mol$

UN Class: N/A EC No.: 215-137-3
Cas No.: 1305-62-0 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Notes: For detecting Carbon dioxide

Notes. For detecting Carbon dioxide					
Cat No.	Grade	Assay	Info.	Per	
ESC55504	⊈ surplad	N/A		500ml	

LITHIUM CARBONATE

 $Li_2CO_3 = 73.89g/mol$



Warning

 UN Class: N/A
 EC No.: 209-062-5

 Cas No.: 554-13-2
 Index No.: Not listed

Hazard: H302 H319 H332 Precaution: P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55513	⊈ surctad	99%		500g

LIMONENE (DIPENTENE)

 $C_{10}H_{16}$ = 136.24g/mol



Hazard: H226 H315 H317 H410 **Precaution:** P273 P280 P501

Notes: For detecting Carbon dioxid

Notes: For dete	lotes: For detecting Carbon dioxide				
Cat No.	Grade	Assay	Info.	Per	
ESC55506	⊈ surciad	98%		250ml	

LITHIUM CHLORIDE ANHYDROUS

LiCl = 42.39g/mol



Hazard: H302 H315 H319 H335 **Precaution:** P261 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55515	⊈ surciad	98.5%		500g

LIMONENE (R)-(+)-

 $C_{10}H_{16} = 136.23g/mol$



 UN Class: 3 /UN2052 PG-III
 EC No.: 227-813-5
 Warning

 Cas No.: 5989-27-5
 Index No.: 601-029-00-7

Hazard: H226 H315 H317 H410

Precaution: P210 P241 P303+P361+P353

Cat No.	Grade	Assay	Info.	Per
ESC55507	⊈ surctad	97%		25ml

LITHIUM HYDROXIDE

LiOH • $H_2O = 41.96g/mol$





 UN Class: N/A
 EC No.: 215-183-4
 Danger

 Cas No.: 1310-66-3
 Index No.: Not listed

Hazard: H302 H314

Precaution: P280 P305+P351+P338 P310

Cat No.	Grade	Assay	Info.	Per
ESC55517	⊈ surciad	98%		500g



LITHIUM NITRATE ANHYDROUS

 $LiNO_3 = 68.95g/mol$

Warning

UN Class: 5.1 /UN2722 PG-III Cas No.: 7790-69-4

EC No.: 232-218-9 Index No.: Not listed

Hazard: H272 Precaution: P220

Cat No.	Grade	Assay	Info.	Per
ESC55519	⊉ surolad	98%		100g

L-LYSINE MONOHYDROCHLORIDE

 $H_2N(CH_2)_4CH(NH_2)CO_2H \cdot HCl = 182.65g/mol$

UN Class: N/A EC No.: 211-519-9 Cas No.: 657-27-2 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55522	⊈ surotad	99%		100g

LITMUS

UN Class: N/A EC No.: 215-739-6 Cas No.: 1393-92-6 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Notes: pH 5.0-8.0

Cat No.	Grade	Assay	Info.	Per
ESC55520	@surplad	N/A	Powder	25g

LYCOPODIUM POWDER

EC No : 282-002-3 Danger

UN Class: 4.1 /UN1325 PG-II Cas No.: 8023-70-9 Index No.: Not listed

Hazard: H228 Precaution: P210

Cat No. Grade Assay Info. Per ESC55530 **⊈**surciad 97% 50g

LUGOL'S IODINE SOLUTION

UN Class: N/A EC No.: N/A Cas No.: N/A Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55524	⊈ surciad	N/A		1L

MAGNESIUM METAL - POWDER

Mg = 24.31g/mol

UN Class: 4.3(4.2) /UN1418 PG-II EC No.: 231-104-6 Cas No.: 7439-95-4 Index No.: 012-001-00-3

Hazard: H260 H250

Precaution: P222 P223 P231+P232

Cat No.	Grade	Assay	Info.	Per
ESC55534	⊈ surciad	99.5%	SURCHARGE	100g
ESC55536	⊈ surciad	99.5%	SURCHARGE	500g

LUMINOL (3-AMINOPHTHALHYDRAZIDE)

 Nh_2 . C_6H_3 . CO. NH. NH. CO = 177.16g/mol



UN Class: N/A EC No.: 208-309-4 Cas No.: 521-31-3 Index No.: Not listed

Hazard: H315 H319 H335

Precaution: P261 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55527	⊈ surplad	97%		1g
ESC55528	⊈ surciad	98%		1g

MAGNESIUM METAL - TURNINGS

Mg = 24.31g/mol



UN Class: 4.1 /UN1869 PG-III EC No.: 231-104-6 Cas No.: 7439-95-4

Index No.: 012-002-00-9

Hazard: H228 H261 H252

Precaution: P210 P231+P232 P235+P410

Cat No.	Grade	Assay	Info.	Per
ESC55537	⊈ surctad	99.5%		100g
ESC55538	⊈ surciad	99.5%		250g



MAGNESIUM CHLORIDE 6-WATER

MgCl₂ • 6H₂O = 203.31g/mol

UN Class: N/A EC No.: 232-094-6
Cas No.: 7791-18-6 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55544	⊈ surctad	97.5%		500g

MAGNESIUM OXIDE - HEAVY

MgO = 40.3g/mol

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55556	⊈ surciad	98%		500g

MAGNESIUM CARBONATE BASIC - HEAVY

 $MgCO_3 = 84.31g/mol$

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55540	⊈ surplad	MgO = 30%	Heavy	250g
ESC55541	⊈ surplad	MgO = 30%	Heavy	500g

MAGNESIUM OXIDE - LIGHT

MgO = 40.3g/mol

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55560	⊉ surctad	98%		500g

MAGNESIUM CARBONATE BASIC - LIGHT

 $MgCO_3 = 84.31g/mol$

UN Class: N/A EC No.: 235-192-7
Cas No.: 39409-82-0 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55542	⊈ surplad	MgO = 30%	Light	500g

MAGNESIUM SULPHATE - DRIED (DRIED)

 $MgSO_4 \cdot xH_2O = 120.38g/mol$

UN Class: N/A EC No.: 231-298-2
Cas No.: 22189-08-8 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55564	⊉ surciad	97%		500g

MAGNESIUM HYDROXIDE

 $Mg(OH)_2 = 58.32g/mol$



Cas No.: 1309-42-8 Index No.: Not listed

Hazard: H315 H319 H335

Precaution: P261 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55547	≜ surctad	95%		500g

MAGNESIUM SULPHATE 7-WATER

 $MgSO_4 \bullet 7H_2O = 246.47g/mol$



 UN Class: N/A
 EC No.: 231-298-2
 Warning

 Cas No.: 10034-99-8
 Index No.: Not listed

Hazard: H302

Precaution: P264 P270 P301+P312 P330

Cat No.	Grade	Assay	Info.	Per
ESC55566	⊉ surcted	99%		1kg

MAGNESIUM NITRATE 6-WATER

 $Mg(NO_3)_2 \cdot 6H_2O = 256.41g/mol$



 UN Class: 5.1 /UN1474 PG-III
 EC No.: 233-826-7
 Warning

 Cas No.: 13446-18-9
 Index No.: Not listed

Hazard: H319

Precaution: P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55552	⊈ sumlad	98%		500g

MAGNESIUM SULPHATE ANHYDROUS

MgSO4 = 120.37g/mol

 UN Class: N/A
 EC No.: 231-298-2

 Cas No.: 7487-88-9
 Index No.: Not listed

Hazard: Not considered hazardous

Cat No.	Grade	Assay	Info.	Per
ESC55568	⊈ surotad	98%		500g



MALACHITE GREEN C.I.42000 (BASIC GREEN 4)

N/A



 UN Class: 6.1 /UN2811 PG-III
 EC No.: 219-441-7
 Danger

 Cas No.: 2437-29-8
 Index No.: 602-096-00-5

Hazard: H361d H302 H318 H410

Precaution: P272 P280 P305+P351+P338 P501

Cat No.	Grade	Assay	Info.	Per
ESC55570	⊈ surplad	N/A		5g

MANGANESE (II) CARBONATE

MnCO₃ = 114.95g/mol

 UN Class: N/A
 EC No.: 209-942-9

 Cas No.: 598-62-9
 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55583	⊈ surplad	93%		500g

MALEIC ACID (CIS-BUTENEDIOIC ACID OR TOXILIC ACID)

CH(COOH):CH(COOH) = 116.07g/mol

(!)

 UN Class: N/A
 EC No.: 203-742-5
 Warning

 Cas No.: 110-16-7
 Index No.: 607-095-00-3

Hazard: H302 H319 H335 H315 H317 Precaution: P261 P280 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55572	⊈ surplad	99%		500g

MANGANESE (II) CHLORIDE 4-WATER

MnCl₂ • 4H₂O = 197.91g/mol



Warning

Hazard: H302

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55586	⊈ surciad	98%		500g

MALONIC ACID (PROPANEDIOIC ACID)

 $CH_2(COOH)_2 = 104.06g/mol$



 UN Class: N/A
 EC No.: 205-503-0
 Warning

 Cas No.: 141-82-2
 Index No.: Not listed

Hazard: H302 H318

Precaution: P280 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55574	⊈ surciad	98%		500g

MANGANESE (II) SULPHATE 1-WATER

 $MnSO_4 \cdot H_2O = 169.02g/mol$



 UN Class: 9 /UN3077 PG-III
 EC No.: 232-089-9
 Warnin

 Cas No.: 10034-96-5
 Index No.: 025-003-00-4

Hazard: H373 H411 Precaution: P273

Cat No.	Grade	Assay	Info.	Per
ESC55589	⊈ surciad	98%		500g

MALTOSE

C₁₂H₂₂O₁₁ • H₂O = 360.31g/mol

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55576	⊈ surplad	97%		100g

MANGANESE (IV) OXIDE FOR O2 PREPARATION

 $MnO_2 = 86.94g/mol$



 UN Class: 5.1 /UN1479 PG-II
 EC No.: 215-202-6
 Warning

 Cas No.: 1313-13-9
 Index No.: 025-001-00-3

Hazard: H332 H302

Precaution: No additional precautions required Notes: For the preparation of Oxygen

Cat No.	Grade	Assay	Info.	Per
ESC55592	⊈ surplad	97%	Powder	250g

MANGANESE FLAKE ELECTROLYTIC

Mn = 54.94g/mol

 UN Class: N/A
 EC No.: 231-105-1

 Cas No.: 7439-96-5
 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55578	⊈ surotad	99%		100g

MANGANESE (IV) OXIDE

 $MnO_2 = 86.94g/mol$



Warning

UN Class: N/A EC No.: 215-202-6 Cas No.: 1313-13-9 Index No.: 025-001-00-3

Hazard: H332 H302

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55595	⊈ surciad	90%	Tech. Powder	500g



MANNITOL

 $C_6H_{14}O_6 = 182.17g/mol$

UN Class: N/A EC No.: 200-711-8 Cas No.: 69-65-8 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55597	⊈ surciad	98%		100g

D (+) MANNOSE

 $C_6H_{12}O_6 = 180.16g/mol$

UN Class: N/A EC No.: 215-202-6 Cas No.: 3458-28-4 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55232	⊈ surciad	99%		5g

MARBLE CHIPS (CALCIUM CARBONATE ORE)

CaCO₃ = 100.09g/mol



UN Class: N/A EC No.: N/A Warning Cas No.: 13397-26-7 Index No.: Not listed

Hazard: H315 H318 H335

Precaution: P261 P280 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55599	⊉ surciad	97%	2-4mm	3kg
ESC555600	⊉ surciad	97%	6-9mm	3kg
ESC555601	⊈ surplad	97%	9-12mm	3kg

MENTHOL

 $C_{10}H_{20}O = 156.27g/mol$



Danger

UN Class: N/A EC No.: 218-690-9 Cas No.: 2216-51-5 Index No.: Not listed

Hazard: H315 H318 H335

Precaution: P261 P280 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC555602	⊈ surolad	99%		100g

MERCURY (II) CHLORIDE (MERCURIC CHLORIDE)

 $HgCl_2 = 271.5g/mol$







UN Class: 6.1 /UN1624 PG-II EC No.: 231-299-8 Danger Cas No.: 7487-94-7 Index No.: 080-010-00-X

Hazard: H341 H361f H300 H372 H314 H410

Precaution: P264 P273 P280 P305+P351+P338 P310 P501

Cat No.	Grade	Assay	Info.	Per
ESC55604	⊈ surplad	99%		100g

MERCURY (II) OXIDE RED (MERCURIC OXIDE RED)

HgO = 216.59g/mol



Danger

UN Class: 6.1 /UN1641 PG-II EC No.: 244-654-7 Cas No.: 21908-53-2 Index No.: 080-002-00-6

Hazard: H330 H310 H300 H373 H410

Precaution: P260 P264 P273 P280 P284 P302+P350

Cat No.	Grade	Assay	Info.	Per
ESC55607	⊈ surciad	N/A		100g

SEE FORMALDEHYDE **METHANAL**

METHANOIC ACID SEE FORMIC ACID

METHANOL (METHYL ALCOHOL)

CH₃OH = 32.04g/mol

Cas No.: 67-56-1





Danger EC No.: 200-659-6 Index No.: 603-001-00-X

Hazard: H225 H331 H311 H301 H370

UN Class: 3(6.1) /UN1230 PG-II

Precaution: P210 P260 P280 P301+P310 P307+P317

Cat No.	Grade	Assay	Info.	Per
ESC55609	⊈ surciad	99%	GR	1L
ESC55610	⊈ surolad	99%	HPLC	1L

METHYL ACETATE

CH₃COOCH₃ = 74.08g/mol



UN Class: 3 /UN1231 PG-II EC No.: 201-185-2 Cas No.: 79-20-9 Index No.: 607-021-00-X

Hazard: H225 H319 H336 EUH066 Precaution: P210 P261 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55612	⊈ surctad	98.5%		1L

METHYLATED SPIRIT (INDUSTRIAL DENATURED ALCOHOL)

(C₂H₅OH & CH₃OH)





Danger

UN Class: 3 /UN1170 PG-II EC No.: N/A Cas No.: N/A Index No.: Not listed

Hazard: H225 H371 Precaution: P210 P260

Cat No.	Grade	Assay	Info.	Per
ESC55614	⊉ surplad	>98%	2 - 4mm	5L

METHYLATED SPIRIT (MINERALISED DENATURED ALCOHOL)

(C₂H₅OH & CH₃OH)



UN Class: 3 /UN1170 PG-II EC No.: N/A Cas No.: N/A Index No.: Not listed Hazard: H225 H371

Precaution: P210 P260

Cat No.	Grade	Assay	Info.	Per
ESC55615	⊈ surolad	N/A	Mineralised	1L



METHYL BENZOATE

 $C_6H_5COOCH_3 = 136.15g/mol$



UN Class: N/A EC No.: 202-259-7 Warning Cas No.: 93-58-3 Index No.: Not listed

Hazard: H302 H319

Precaution: P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55617	⊈ surplad	99%	9-12mm	500ml

$CH_2=C(CH_3)COOCH_3 = 100.12g/mol$ UN Class: 3 /UN1247 PG-II EC No.: 201-297-1 Danger Cas No.: 80-62-6 Index No.: 607-035-00-6 Hazard: H225 H335 H315 H317 Precaution: P210 P261 P280 Cat No. Grade Assay Info Per ESC55636 99.5% 500ml **⊈**surolad

METHYL METHACRYLATE MONOMER

METHYLBENZENE

SEE TOLUENE

METHYL BLUE C.I.42780

N/A



UN Class: N/A EC No.: 249-352-9 Warning Cas No.: 28983-56-4 Index No.: Not listed

Hazard: H302 H315 H319 H335 Precaution: P261 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55619	⊈ surciad	N/A		25g

TANE

3-METHYL-1-BUTANOL SEE ISO-AMYL ALCOHOL

3-METHYLBUTYL ACETATE SEE ISO-AMYL ACETATE

METHYLENE BLUE C.I.52015

N/A



UN Class: N/A EC No : 200-515-2 Warning Cas No.: 7220-79-3 Index No.: Not listed

Hazard: H302 H315 H319 H335 Precaution: P261 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55631	⊈ surciad	N/A		50g
ESC55632	⊈ surctad	N/A		100g

Precaution: P261 P305+P351+P338

Hazard: H315 H319 H335

 $HOC_6H_4CO_2CH_3 = 152.15g/mol$

UN Class: N/A

Cas No.: 99-76-3

METHYL 4-HYDROXYBENZOATE

Cat No.	Grade	Assay	Info.	Per
ESC55638	⊈ surciad	98%		50g

METHYL ORANGE C.I.13025



Warning

UN Class: 6.1 /UN3143 PG-III Cas No : 547-58-0

EC No.: 208-925-3

EC No.: 202-785-7

Index No.: Not listed

Index No.: Not listed

Hazard: H301 Precaution: P301+P310

Cat No.	Grade	Assay	Info.	Per
ESC55621	⊈ surciad	N/A	2-4mm	50g
ESC55622	⊈ surciad	N/A	9-12mm	100g

METHYLENE BLUE 1% AQUEOUS SOLUTION

UN Class: N/A EC No.: N/A Cas No.: N/A Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55634	⊈ surplad	1%		125ml

METHYLENE CHLORIDE	SEE DICHLOROMETHANE

METHYL ETHYL KETONE **SEE 2-BUTANONE**

METHYL ORANGE 0.04% SOLUTION

UN Class: 3 /UN1993 PG-III EC No.: N/A

Cas No.: N/A Index No.: Not listed

Hazard: H225 Precaution: P210

Cat No.	Grade	Assay	Info.	Per
ESC55624	⊈ surplad	0.04%	pH 2.9-4.6	500ml

METHYL ORANGE - XYLENE CYANOL (SCREENED METHYL ORANGE)

 $HOC_6H_4CO_2CH_3 = 152.15g/mol$



UN Class: 3 /UN1993 PG-III EC No.: N/A Cas No.: N/A Index No.: Not listed

Hazard: H301 H335 H315 H319

Precaution: P261 P280 P301+P310 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55627	⊈ surolad	N/A	pH 2.9-4.6	5g



METHYL ORANGE - XYLENE CYANOL SOLUTION

UN Class: 3 /UN1993 PG-III

EC No.: N/A

Cas No.: N/A

Index No.: Not listed

Hazard: H225 H371 Precaution: P210 P260

Cat No.	Grade	Assay	Info.	Per
ESC55628	⊈ surotad	0.36%	pH 2.9-4.6	500ml

2-METHYLPROPAN-1-OL (ISO-BUTYL ALCOHOL)

 $(CH_3)_2CHCH_2OH = 74.12g/mol$

UN Class: 3 /UN1212 PG-III Cas No.: 78-83-1

EC No.: 201-148-0 Danger

Index No.: 603-108-00-1

Hazard: H226 H335 H315 H318 H336 Precaution: P261 P280 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC54786	⊉ surolad	98%		1L

2-METHYLPROPAN-2-OL (TERT-BUTYL ALCOHOL)

 $(CH_3)_3COH = 74.12g/mol$

UN Class: 3 /UN1120 PG-II Cas No.: 75-65-0

EC No.: 200-889-7 Danger

Index No.: 603-005-00-1

Hazard: H225 H332 H319 H335

Precaution: P210

Cat No.	Grade	Assay	Info.	Per
ESC54789	⊈ surplad	98.5%		1L

METHYL RED C.I.13020

UN Class: N/A EC No.: 207-776-1 Cas No : 493-52-7 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55626	⊈ surolad	N/A	pH 4.2-6.3	100g

MINERAL WOOL UN Class: N/A

EC No.: N/A

Cas No.: N/A Index No.: 650-016-00-2

Hazard: H351

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55639	⊈ surplad	N/A		500g

MINERAL WOOL - SUPERWOOL 607

UN Class: N/A EC No.: N/A Cas No.: 436083-99-7 Index No.: Not listed

Hazard: H351

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55640	⊈ surotad	N/A		500g

MUREXIDE (AMMONIUM PURPURATE)

 $C_8H_5N_5O_6$. $H_3N = 284.19g/mol$

UN Class: N/A EC No.: 221-266-6 Cas No.: 3051-09-0 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55641	⊈ surctad	97%		25g

NAPTHALENE CRYSTALS

 $C_{10}H_8 = 128.17g/mol$



Warning

UN Class: 4.1 /UN1334 PG-III Cas No.: 91-20-3 Index No.: 601-052-00-2

Hazard: H351 H302 H410

Precaution: P273 P281 P501

Cat No.	Grade	Assay	Info.	Per
ESC55643	⊈ surotad	99%		500g

METHYL SALICYLATE (METHYL 2-HYDROXYBENZOATE OR OIL OF WINTERGREEN)

 $2-(HO)C_6H_4CO_2CH_3 = 152.12g/mol$



UN Class: N/A EC No.: 204-317-7 Warning Cas No.: 119-36-8 Index No.: Not listed

Hazard: H302 H315 H319 H335 Precaution: P261 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55629	⊈ surplad	99%		500ml

1-NAPTHOL (NAPHTHALEN-1-OL)

 $C_{10}H_7OH = 144.17g/mol$



UN Class: 6.1 /UN2811 PG-III EC No.: 201-969-4 Danger Cas No.: 90-15-3 Index No.: 604-029-00-5

Hazard: H312 H302 H335 H315 H318 Precaution: P261 P280 P305+P351+P338

Cat No.	Grade	Assay	Info.	Price	Per
ESC54761	⊈ surciad	98%		15.95	100g



2-NAPTHOL (NAPHTHALEN-2-OL)

 $C_{10}H_7OH = 144.17g/mol$



UN Class: 9 /UN3077 PG-III EC No.: 205-182-7 Warning Cas No.: 135-19-3 Index No.: 604-007-00-5

Hazard: H332 H302 H400

Precaution: P273 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC54792	⊈ surciad	98%		100g

NICKEL (II) NITRATE 6-WATER

Ni(NO₃)₂ • 6H₂O = 290.79g/mol





Danger

Cas No.: 13478-00-7 Index No.: Not listed

Hazard: H350i H341 H360 H272 H302 H315 H317 H318 H332 H334 H372 H410

Precaution: P201 P220 P261 P273 P280 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55676	⊈ surctad	99.5%		250g

NEUTRAL RED C.J.50040

 $C_{15}H_{17}ClN_4 = 288.78g/mol$

UN Class: N/A EC No.: 209-035-8 Cas No : 553-24-2 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55659	⊈ surplad	N/A	pH 6.8-8.0	5g

NICKEL (II) OXIDE BLACK TECHNICAL

NiO = 74.69g/mol



UN Class: N/A Cas No.: 1313-99-1 Index No.: 028-003-00-2

Hazard: H350i H372 H317 H413 Precaution: P201 P280 P308+P313

Cat No.	Grade	Assay	Info.	Per
ESC55668	⊈ surotad	N/A		100g

NICKEL METAL - FOIL

Ni = 58.71g/mol



UN Class: N/A EC No.: 231-111-4 Cas No.: 7440-02-0 Index No.: 028-002-00-7

Hazard: H351 H372 H317 Precaution: P280 P314

Cat No.	Grade	Assay	Info.	Per
ESC55661	⊈ surotad	>99%	Foil 0.15mm	100g

NICKEL (II) SULPHATE HYDRATED

NiSO₄ • 6-7H₂O



UN Class: 9 /UN3077 PG-III EC No.: 232-104-9 Cas No.: 15244-37-8 Index No.: 028-009-00-5

Hazard: H350i H360 H372 H317 H302 H315 H332 H334 H341 H410

Precaution: P201 P261 P273 P280 P308+P313 P501

Cat No.	Grade	Assay	Info.	Per
ESC55672	⊈ surplad	98%		250g

NICKEL (II) CARBONATE BASIC

 \sim NiCO₃ • 2Ni(OH)₂ • 4H₂O = 342.1g/mol



UN Class: 9 /UN3077 PG-III EC No.: 235-715-9 Danger Cas No.: 12607-70-4 Index No.: 028-010-00-0

Hazard: H302 H315 H317 H332 H334 H341 H350i H360 H372 H410

Precaution: P201 P261 P273 P280 P308+P313 P501

Cat No.	Grade	Assay	Info.	Per
ESC55663	⊈ surplad	Ni = 46%		100g

NIGROSIN C.I.50420 (ACID BLACK 2)

UN Class: N/A Cas No.: 8005-03-6 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55682	⊈ surciad	N/A		5g

NICKEL (II) CHLORIDE 6-WATER (NICKEL DICHLORIDE)

NiCl₂ • 6H₂O = 237.69g/mol



UN Class: 6.1 /UN3288 PG-III EC No.: 231-743-0 Danger Cas No.: 7791-20-0 Index No.: 028-011-00-6

Hazard: H350i H341 H360FD H331 H301 H372 H315 H334 H317 H410

Precaution: P201 P261 P273 P280 P301+P310 P311

Cat No.	Grade	Assay	Info.	Price	Per
ESC55665	⊈ surciad	97%		15.95	500g

NINHYDRIN (INDAN-1,2,3-TRIONE)

 $C_6H_4COC(OH)_2CO = 178.14g/mol$



UN Class: N/A EC No.: 207-618-1 Warning Cas No.: 485-47-2 Index No.: Not listed

Tel: +44 (0)203 8685740

Hazard: H302 H315 H319 H335 Precaution: P261 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55684	⊈ surciad	98%		25g



NINHYDRIN SPRAY

N/A



UN Class: 3 /UN1219 PG-II EC No.: N/A Cas No.: N/A Index No.: Not listed

Hazard: H225 H319 H336

Precaution: P210 P261 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55686	⊈ surplad	N/A		100ml

NITROBENZENE

 $C_6H_5NO_2 = 123.11g/mol$



Danger

UN Class: 6.1 /UN1662 PG-II EC No.: 202-716-0 Cas No.: 98-95-3 Index No.: 609-003-00-7

Hazard: H301 H311 H331 H351 H361f H372 H411

Precaution: P273 P281 P314

Cat No.	Grade	Assay	Info.	Per
ESC55700	⊈ surctad	99%		100ml

NITRIC ACID 69%

HNO₃ = 63.01g/mol

UN Class: 8(5.1) /UN2031 PG-II EC No : 231-714-2 Cas No.: 7697-37-2 Index No.: 007-004-00-1

Hazard: H272 H314

Precaution: P220 P280 P305+P351+P338 P310

ı					
	Cat No.	Grade	Assay	Info.	Per
	ESC55692	⊈ surolad	65%		2.5L
	ESC55696	⊈ surctad	69-70%		2.5L

NYLON 6/6 PELLETS (POLY(HEXAMETHYLENE ADIPAMIDE))

 $(C_{12}H_{22}N_2O_2)n = 262.35g/mol$

EC No.: N/A UN Class: N/A Cas No.: 32131-17-2 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55702	⊈ surciad	N/A		100g

NITRIC ACID 1.0M SOLUTION

 $HNO_3 = 63.01g/mol$



UN Class: 8 /UN2031 PG-II EC No : 231-714-2 Cas No : 7697-37-2 Index No.: 007-004-00-1

Hazard: H314

Precaution: P280 P305+P351+P338 P310

					_
Cat No.	Grade	Assay	Info.	Per	
ESC55688	⊉ surolad	1.0M		1L	

N-OCTANE

 $CH_3(CH_2)_6CH_3 = 114.23g/mol$







Danger

UN Class: 3 /UN1262 PG-II EC No : 203-892-1 Cas No.: 111-65-9 Index No.: 601-009-00-8

Hazard: H225 H304 H315 H336 H410

Precaution: P210 P261 P273 P301+P331 P501

Cat No.	Grade	Assay	Info.	Per
ESC55704	⊈ surotad	99%		100ml

NITRIC ACID 2.0M SOLUTION

 $HNO_3 = 63.01g/mol$



UN Class: 8 /UN2031 PG-II EC No.: 231-714-2 Danger Cas No.: 7697-37-2 Index No.: 007-004-00-1

Hazard: H314

Precaution: P280 P305+P351+P338 P310

Cat No.	Grade	Assay	Info.	Per
ESC55690	⊈ surolad	2.0M		1L

OCTAN-1-OL (OCTYL ALCOHOL)

CH₃(CH₂)₇OH = 130.23g/mol



UN Class: N/A EC No.: 203-917-6 Warning Cas No.: 111-87-5 Index No.: Not listed

Hazard: H315 H319

Precaution: P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55712	<u>Asurolad</u>	94-98%		1L



DCTADECANOIC ACID SEE STEARIC ACID

OCTADEC-9-ENOIC ACID SEE OLEIC ACID

ISO-OCTANE

SEE 2,2,4-TRIMETHYLPENTANE

OCT-1-ENE

CH₃(CH₂)₅CH=CH₂ = 112.21g/mol



UN Class: 3 /UN3295 PG-II EC No.: 203-893-7 Cas No : 111-66-0 Index No.: Not listed

Hazard: H225 H304 H315 H319 H411

Precaution: P210 P273 P301+P310 P305+P351+P338 P331

Cat No.	Grade	Assay	Info.	Per
ESC55714	⊈ surplad	97%		100ml

OIL - CASTOR

UN Class: N/A EC No.: 232-293-8 Cas No.: 8001-79-4 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55716	⊈ surciad	98%		500ml

OIL - CLOVE

N/A



UN Class: N/A EC No.: N/A Warning Cas No.: 8000-34-8 Index No.: Not listed

Hazard: H315 H319 H335

Precaution: P261 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55717	<u>⊈</u> simiad	95%		100ml

OIL - CRUDE (SUBSTITUTE) (C.L.E.A.P.S.E FORMULATION)

N/A



UN Class: 3 /UN1286 PG-II EC No.: N/A Cas No.: N/A Index No.: Not listed

Hazard: H350 H304 H319 H225

Precaution: P281 P301+P310 P331 P305+P351+P338 P210

Cat No.	Grade	Assay	Info.	Per
ESC55720	⊈ surplad	N/A		500ml

OIL - LINSEED

N/A



UN Class: N/A EC No.: 232-278-6 Warning Cas No.: 8001-26-1 Index No.: Not listed

Hazard: H302 H312 H315 H317 H319 H332 H335 Precaution: P261 P280 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55721	⊈ surctad	95%		500ml

OIL - OLIVE

UN Class: N/A EC No.: 232-277-0 Cas No.: 8001-25-0 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55723	⊈ surciad	95%		500ml

OIL - TURPENTINE

N/A







UN Class: 3 /UN1299 PG-III Cas No.: 8006-64-2

Index No.: 650-002-00-6 Hazard: H226 H332 H312 H302 H304 H319 H315 H317 H411 Precaution: P273 P280 P301+P310 P305+P351+P338 P331

Cat No.	Grade	Assay	Info.	Per
ESC55724	(D	91%		500ml

OLEIC ACID (9-OCTADECENOIC ACID)

$CH_3(CH_2)_7CH=CH(CH_2)_7COOH=282.46g/mol$



UN Class: N/A EC No.: 204-007-1 Cas No.: 112-80-1 Index No.: Not listed

Hazard: H315 H319 Precaution: P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55725	⊈ surctad	0.8%		1L

O.N.P.G (2-NITROPHENYL-BETA-D-GALACTOPYRANOSIDE)

 $C_{12}H_{15}NO_8 = 301.25g/mol$

UN Class: N/A EC No.: 206-716-1 Cas No : 369-07-3 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55730	⊈ surctad	98%		1g

ORANGE G (ACID ORANGE 10)

N/A = 452.37g/mol

UN Class: N/A EC No.: N/A Cas No.: 1936-15-8 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55731	⊈ surctad	N/A		10g



ORCEIN SYNTHETIC (NATURAL RED 28)

N/A

UN Class: N/A **EC No.:** 215-750-6 Warning

Cas No.: 1400-62-0 Index No.: Not listed

Hazard: H302

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55732	⊈ surciad	N/A		5g

PALMITIC ACID (HEXADECANOIC ACID)

 $CH_3(CH_2)_{14}COOH = 256.42g/mol$



Hazard: H319

Precaution: P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55737	⊈ surplad	95%		100g

ORCEIN ACETIC (LA COUR)

N/A



 UN Class: 8 /UN2790 PG-III
 EC No.: N/A
 Danger

 Cas No.: N/A
 Index No.: Not listed

Hazard: H226 H314

Precaution: P280 P305+P351+P338 P310

Cat No.	Grade	Assay	Info.	Per
ESC55733	⊈ surciad	N/A	0.6% Solution	100ml

PANCREATIN FROM PIG PANCREAS

N/A

\$ 222.468.0 Down

 UN Class: N/A
 EC No.: 232-468-9
 Danger

 Cas No.: 8049-47-6
 Index No.: 647-014-00-9

Hazard: H319 H335 H315 H334

Precaution: P261 P305+P351+P338 P342+P311

Cat No.	Grade	Assay	Info.	Per
ESC55738	⊈ surplad	97%		25g
ESC55739	⊉ surplad	97%		100g

ORCEIN PROPIONIC

N/A



 UN Class: N/A
 EC No.: N/A
 Danger

 Cas No.: N/A
 Index No.: Not listed

Hazard: H314

Precaution: P260 P280 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55734	⊈ surciad	N/A	0.6% Solution	100ml

ORTHOPHOSPHORIC ACID (PHOSPHORIC ACID)

 $H_3PO_4 = 98g/mol$



Danger

Hazard: H314

Precaution: P260 P280 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55735	⊈ surplad	85%		1L
ESC55736	⊈ surciad	85%		2.5L

PARAFFIN LIQUID LIGHT

N/A



 UN Class: N/A
 EC No.: 232-384-2
 Warning

 Cas No.: 8012-95-1
 Index No.: Not listed

Hazard: H319

Precaution: P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55740	⊈ surciad	98%		1L

OXALIC ACID 2-WATER (ETHANEDIOIC ACID)

 $(COOH)_2 \cdot 2H_2O = 126.07g/mol$



Warning

UN Class: 8 /UN3261 PG-III **Cas No.:** 6153-56-6

EC No.: 205-634-3

Index No.: 607-006-00-8

Hazard: H312 H302 Precaution: P280

Cat No.	Grade	Assay	Info.	Per
ESC55727	⊈ surplad	99.5%		500g
ESC55728	⊈ surplad	99.5%	PURIFIED	500g

PARAFFIN OIL (KEROSENE OIL)

N/A



Danger

UN Class: 3 /UN1223 PG-III **Cas No.:** 8008-20-6

EC No.: 232-366-4

Index No.: 649-404-00-4

Precaution: P301+P310

Hazard: H304

Cat No.	Grade	Assay	Info.	Per
ESC55742	⊈ surolad sack action	97%		500ml



PARAFFIN WAX 56-58°C

 UN Class: N/A
 EC No.: 232-315-6

 Cas No.: 8002-74-2
 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55744	⊈ surciad	97%		500g

ISO-PENTANE (2-METHYLBUTANE)

 $CH_3CH_2CH(CH_3)_2 = 72.15g/mol$

(1) (2) (3) (5) (5) (1)

Danger

 UN Class: 3 /UN1265 PG EC No.: 201-142-8

 Cas No.: 78-78-4
 Index No.: 601-006-00-1

Hazard: H225 H304 H336 H411 EUH066 **Precaution:** P210 P261 P273 P301+P310 P331

Cat No.	Grade	Assay	Info.	Per
ESC55452	⊈ surolad	N/A		2.5L

N-PENTANE

CH₃(CH₂)₃CH₃ = 72.15g/mol



 UN Class: 3 /UN1265 PG-II
 EC No.: 203-692-4
 Danger

 Cas No.: 109-66-0
 Index No.: 601-006-00-1

Hazard: H225 H304 H336 H411 EUH066 **Precaution:** P210 P261 P273 P301+P310 P331

Cat No.	Grade	Assay	Info.	Per
ESC55708	⊈ surctad	99%		2.5L

PETROLEUM JELLY - WHITE (PARAFFIN SOFT WHITE)

Assav

95%

 UN Class: N/A
 EC No.: 232-373-2

 Cas No.: 8009-03-8
 Index No.: Not listed

Hazard: Not considered hazardous

PEPTONE BACTERIOLOGICAL

Hazard: Not considered hazardous **Precaution:** No additional precautions required

Grade

⊈surplad

Hazard: H225 H304 H315 H336 H361 H373 H411 **Precaution:** P210 P261 P273 P281 P301+P310 P331

Grade

⊉surciad

PETROLEUM ETHER (LIGROIN)

UN Class: 3 /UN1268 PG-II

Cas No.: 8032-32-4

Cat No.

ESC55755

Assay

N/A

UN Class: N/A

Cat No.

ESC55753

Cas No.: 73049-73-7

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55757	⊉ surotad	N/A		500g

EC No.: N/A

Index No.: Not listed

EC No.: 232-453-7

Index No.: 649-263-00-9

Info

Info

Per

100a

Danger

Per

2.5L

PENTAN-1-OL (N-AMYL ALCOHOL)

 $CH_3(CH_2)_4OH = 88.15g/mol$



 UN Class: 3 /UN1105 PG-III
 EC No.: 200-752-1
 Warning

 Cas No.: 71-41-0
 Index No.: 603-200-00-1

Hazard: H226 H332 H335 H315

Precaution: P261

Cat No.	Grade	Assay	Info.	Per
ESC55748	⊈ surplad	99%		1L
ESC55749	⊉ surplad	>99%		2.5L

1-10-PHENANTHROLINE HYDRATE

 $C_{12}H_8N_2 \cdot H_2O = 198.22g/mol$

UN Class: 6.1 /UN2811 PG-III

EC No.: 200-629-2 Index No.: 613-092-00-8

Cas No.: 5144-89-8 **Hazard**: H301 H410

Precaution: P273 P301+P310 P501

Cat No.	Grade	Assay	Info.	Per
ESC55759	⊈ sumlad	98%		5g

PENTAN-2-OL

 $CH_3CH_2CH_2CH(OH)CH_3 = 88.15g/mol$



 UN Class: 3 /UN1105 PG-III
 EC No.: 227-907-6
 We

 Cas No.: 6032-29-7
 Index No.: 603-006-00-7

Hazard: H226 H332 H335 EUH066

Precaution: P261

Cat No.	Grade	Assay	Info.	Per
ESC55751	⊉ surotad	99%		100ml

PHENOL (CARBOLIC ACID)

 $C_6H_5OH = 94.11g/mol$



Hazard: H341 H331 H311 H301 H373 H314

Precaution: P261 P280 P301+P310 P305+P351+P338 P312

Cat No.	Grade	Assay	Info.	Per
ESC55761	⊈ surplad	98%		500g



PHENOLPHTHALEIN 1% SOLUTION

N/A



 UN Class: 3 /UN1170 PG-II
 EC No.: N/A

 Cas No.: N/A
 Index No.: Not listed

Hazard: H225 H341 H350

Precaution: P201 P210 P281 P308+P313

ı					
	Cat No.	Grade	Assay	Info.	Per
	ESC55768	⊈ surciad	0.01%	pH 8.3-10.0	1L

PHENYL SALICYLATE (PHENYL-2-HYDROXYBENZOATE OR SALOL)

 $C_6H_4(OH)COOC_6H_5 = 214.22g/mol$



 UN Class: N/A
 EC No.: 204-259-2
 Warning

 Cas No.: 118-55-8
 Index No.: Not listed

Hazard: H315 H319 H335

Precaution: P261 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55771	⊈ surplad	99%		100g
ESC55772	⊈ surolad	99%		250g

PHENOLPHTHALEIN

 $OCOC_6H_4C(C_6H_4OH)_2 = 318.33g/mol$



 UN Class: N/A
 EC No.: 201-004-7
 Danger

 Cas No.: 77-09-8
 Index No.: 604-076-00-1

Hazard: H350 H341 H361f **Precaution:** P201 P281 P308+P313

Cat No.	Grade	Assay	Info.	Per
ESC55775	⊈ surciad	N/A	pH 8.3-10.0	50g
ESC55776	⊈ surciad	N/A	pH 8.3-10.0	100g

PHLOROGLUCINOL 2-WATER (BENZENE-1,3,5-TRIOL)

 $C_6H_3(OH)_3 \cdot 2H_2O = 162.14g/mol$

 UN Class: N/A
 EC No.: 203-611-2

 Cas No.: 6099-90-7
 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55779	⊈ surciad	95%		10g

PHENOL RED (PHENOLSULFONPHTHALEIN)

 $C_{19}H_{14}O_{5}S = 354.38g/mol$



 UN Class: N/A
 EC No.: 205-609-7
 Warning

 Cas No.: 143-74-8
 Index No.: Not listed

Hazard: H315 H319 H335 Precaution: P261 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55764	⊈ surplad	N/A		25g

PHLOROGLUCINOL 5% SOLUTION - ALCOHOLIC

N/A



 UN Class: 3 /UN1170 PG-II
 EC No.: N/A

 Cas No.: N/A
 Index No.: Not listed

Hazard: H225 H371 Precaution: P210 P260

Cat No.	Grade	Assay	Info.	Per
ESC55780	⊈ surplad	N/A		100ml

DL-PHENYLALANINE (DLPA)

 $C_6H_5CH_2CH(NH_2)COOH = 165.19g/mol$

 UN Class: N/A
 EC No.: 205-756-7

 Cas No.: 150-30-1
 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55766	⊈ surciad	99%		5g

PHENYLAMINE SEE ANILINE

PHENYLAMMONIUM CHLORIDE SEE ANILINE HYDROCHLORIDE

PHENYLETHYLENE SEE STYRENE

PHENYLMETHANOL SEE BENZYL ALCOHOL

PHOSPHORUS - RED

P = 30.97g/mol



Danger

Hazard: H228 H412 Precaution: P210 P273

Cat No.	Grade	Assay	Info.	Per
ESC55784	⊈ surplad	98%		100g

PHOSPHORIC ACID SEE ORTHOPHOSPHORIC ACID



PHOSPHOROUS PENTACHLORIDE

N/A



 UN Class: 8 /UN1806 PG-II
 EC No.: N/A
 Danger

 Cas No.: N/A
 Index No.: Not listed

Hazard: H330 H302 H373 H314 EUH014 EUH029 **Precaution:** P260 P280 P284 P305+P351+P338 P310

Cat No.	Grade	Assay	Info.	Per
ESC55787	⊈ surciad	N/A		500g

PEPTONE BACTERIOLOGICAL

 UN Class: N/A
 EC No.: N/A

 Cas No.: 73049-73-7
 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55753	⊈ aurolad	N/A		100g

PHOSPHORUS PENTOXIDE (PHOSPHORIC ANHYDRIDE)

 $P_2O_5 = 141.94g/mol$



 UN Class: 8 /UN1807 PG-II
 EC No.: 215-236-1
 Danger

 Cas No.: 1314-56-3
 Index No.: 015-010-00-0

Hazard: H314

Precaution: P280 P305+P351+P338 P310

Cat No.	Grade	Assay	Info.	Per
ESC55790	⊉ surotad	95%		250g

POTASSIUM METAL IN LIQUID PARAFFIN

K = 39.1g/mol



 UN Class: 4.3 /UN2257 PG-I
 EC No.: 231-119-8
 Dange

 Cas No.: 7440-09-7
 Index No.: 019-001-00-2

Hazard: H260 H314 EUH014

Precaution: P223 P231+P232 P280 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55805	⊉ surplad	98%	SURCHARGE	25g
ESC55806	⊈ surolad	98%	SURCHARGE	100g

PHTHALIC ACID (BENZENE-1,2-DICARBOXYLIC ACID)

 $C_6H_4(COOH)_2 = 166.13g/mol$



 UN Class: N/A
 EC No.: 201-873-2
 Warning

 Cas No.: 88-99-3
 Index No.: Not listed

Hazard: H315 H319 H335

Precaution: P261 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55793	⊉ surplad	98%		250g

POTASSIUM BROMATE

 $KBrO_3 = 167g/mol$



Danger

Hazard: H271 H350 H301

Precaution: P201 P220 P301+P310 P308+P313

Cat No.	Grade	Assay	Info.	Price	Per
ESC55814	⊈ surciad	99.5%		15.95	250g

PHTHALIC ANHYDRIDE (2-BENZOFURAN-1,3-DIONE)

COC₆H₄COO = 148.12g/mol



 UN Class: 8 /UN2214 PG-III
 EC No.: 201-607-5
 Danger

 Cas No.: 85-44-9
 Index No.: 607-009-00-4

Hazard: H302 H335 H315 H318 H334 H317

Precaution: P261 P280 P305+P351+P338 P342+P311

Cat No.	Grade	Assay	Info.	Per
ESC55796	⊈ surctad	99.5%		500g

POTASSIUM BROMIDE

Kbr = 119g/mol



 UN Class: N/A
 EC No.: 231-830-3
 Warning

 Cas No.: 7758-02-3
 Index No.: Not listed

Hazard: H315 H319 H335

Precaution: P261 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55818	⊈ surplad	99%		500g

POLY(VINYL ALCOHOL) (ETHENOL)

 $(CH_2:CHOH)n = 17000g/mol$

 UN Class: N/A
 EC No.: N/A

 Cas No.: 9002-89-5
 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55799	⊈ surplad	85%		250g
ESC55800	⊈ surolad	87 - 90%		500g

POTASSIUM CARBONATE ANHYDROUS

K₂CO₃ = 138.21g/mol



 UN Class: N/A
 EC No.: 209-529-3
 Warning

 Cas No.: 584-08-7
 Index No.: Not listed

Hazard: H302 H315 H319 H335 **Precaution:** P261 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55821	≜ surotad	99.5%		500g



POTASSIUM CHLORATE

KClO₃ = 122.55g/mol



UN Class: 5.1 /UN1485 PG-II Cas No.: 3811-04-9

EC No.: 223-289-7 Index No.: 017-004-00-3

Hazard: H271 H332 H302 H411

Precaution: P220 P273

Cat No.	Grade	Assay	Info.	Per
ESC55824	⊈ surolad	98%		500g

POTASSIUM DIHYDROGEN PHOSPHATE

KH₂PO₄ = 136.09g/mol

UN Class: N/A EC No.: 231-913-4 Cas No.: 7778-77-0 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55842	⊈ surotad	98%		500g

POTASSIUM CHLORIDE

Kcl = 74.55g/mol

UN Class: N/A EC No : 231-211-8 Cas No.: 7447-40-7 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55828	⊈ surplad	99%		500g
ESC55829	⊈ surciad	>99%		1kg

POTASSIUM FERRICYANIDE (POTASSIUM HEXACYANOFERRATE (III))

K₃Fe(CN)₆ = 329.24g/mol

UN Class: N/A EC No.: 237-323-3 Warning Cas No.: 13746-66-2 Index No.: Not listed

Hazard: EUH032

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55846	⊈ surplad	99%		100g
ESC55847	≜ surolad	99%		250g

POTASSIUM CHROMATE

 $K_2CrO_4 = 194.19g/mol$



UN Class: 6.1 /UN3288 PG-III EC No.: 232-140-5

Cas No.: 7789-00-6 Index No.: 024-006-00-8

Danger

Hazard: H350i H340 H319 H335 H315 H317 H410

Precaution: P201 P261 P273 P280 P305+P351+P338 P308+P313

Cat No.	Grade	Assay	Info.	Per
ESC55832	⊈ surciad	99%		500g

POTASSIUM FERROCYANIDE (POTASSIUM HEXACYANOFERRATE (II))

 $K_4Fe(CN)_6 \cdot 3H_2O = 422.39g/mol$



Warning

EC No : 237-722-2 UN Class: N/A

Cas No.: 14459-95-1 Index No.: Not listed

Hazard: EUH032

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55850	⊈ surplad	98.5%		250g

TRI-POTASSIUM CITRATE

 $C_6H_5K_3O_7$. $H_2O = 324.41g/mol$

UN Class: N/A EC No.: N/A Cas No.: 6100-05-6 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55835	⊈ surplad	99%		500g

POTASSIUM HYDROGEN CARBONATE (POTASSIUM BICARBONATE)

KHCO₃ = 100.12g/mol

UN Class: N/A EC No.: 206-059-0 Cas No.: 298-14-6 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55853	⊈ surctad	99.5%		500g

POTASSIUM DICHROMATE

 $K_2Cr_2O_7 = 294.18g/mol$



UN Class: 6.1 /UN3087 PG-II Cas No.: 7778-50-9

Index No.: 024-002-00-6 Hazard: H272 H350 H340 H360FD H330 H301 H372 H312 H314 H334 H317 H410

FC No.: 231-906-6

Precaution: P201 P220 P260 P273 P280 P284

Cat No.	Grade	Assay	Info.	Per
ESC55838	⊈ surplad	99%	SURCHARGE	250g

DI-POTASSIUM HYDROGEN PHOSPHATE

K₂HPO₄ = 174.18g/mol

UN Class: N/A EC No.: 231-834-5 Cas No.: 7758-11-4 Index No.: Not listed

Hazard: Not considered hazardous

Cat No.	Grade	Assay	Info.	Per
ESC55250	⊈ surctad	98%		500g



POTASSIUM HYDROGEN PHTHALATE

COOH • C₆H₄ • COOK = 204.22g/mol

EC No.: 212-889-4 UN Class: N/A Cas No.: 877-24-7 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55860	⊈ surciad	99.5%		250g
ESC55861	⊈ surctad	99.5%		500g

POTASSIUM HYDROGEN SULPHATE (POTASSIUM BISULPHATE)

KHSO₄ = 136.16g/mol

UN Class:8 /UN2509 PG-II Danger EC No.: 231-594-1

Index No.: 016-056-00-4

Cas No.: 7646-93-7 Hazard: H314 H335

Precaution: P261 P280 P305+P351+P338 P310

Cat No.	Grade	Assay	Info.	Per
ESC55865	⊈ surctad	98%		250g

POTASSIUM HYDROGEN TARTRATE (CREAM OF TARTAR)

KO₂CCH(OH)CH(OH)COOH = 188.18g/mol

UN Class: N/A EC No : 212-769-1 Cas No.: 868-14-4 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55869	⊈ surciad	98%		250g

POTASSIUM HYDROXIDE FLAKE

KOH = 56.11g/mol

Danger

UN Class: 8 /UN1813 PG-II EC No.: 215-181-3 Cas No.: 1310-58-3 Index No.: 019-002-00-8

Hazard: H290 H302 H314

Precaution: P260 P280 P303+P361+P353 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55873	⊈ surciad	85%		500g

POTASSIUM HYDROXIDE PELLETS

KOH = 56.11g/mol

UN Class: 8 /UN1813 PG-II EC No.: 215-181-3 Danger Cas No.: 1310-58-3 Index No.: 019-002-00-8

Hazard: H290 H302 H314

Precaution: P260 P280 P303+P361+P353 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55876	⊈ surplad	85%		250g
ESC55877	⊈ surciad	90%		500g

POTASSIUM IODATE (V)



UN Class: 5.1 /UN1479 PG-II EC No.: 231-831-9 Cas No.: 7758-05-6 Index No.: Not listed

Hazard: H272 H315 H319 H335

Precaution: P220 P261 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55881	⊈ surplad	99%		100g

POTASSIUM IODATE (VII) (POTASSIUM PERIODATE)

 $KIO_4 = 230g/mol$



Danger

Danger

UN Class: 5.1 /UN1479 PG-II EC No.: 232-196-0 Cas No.: 7790-21-8 Index No.: Not listed

Hazard: H272 H315 H319 H335

Precaution: P220 P261 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55885	⊈ surplad	99%		100g

POTASSIUM IODIDE

KI = 166g/mol

UN Class: N/A EC No.: 231-659-4 Cas No.: 7681-11-0 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55889	⊈ surciad	99%		100g
ESC55890	⊈ surciad	99%		250g
ESC55891	⊈ surctad	99%		500g

POTASSIUM MANGANATE (VII) (POTASSIUM PERMANGANATE)

 $KMnO_4 = 158.03g/mol$







Danger

UN Class: 5.1 /UN1490 PG-II Cas No : 7722-64-7

EC No.: 231-760-3 Index No.: 025-002-00-9

Hazard: H272 H302 H410 Precaution: P220 P273 P501

Cat No.	Grade	Assay	Info.	Per
ESC55893	⊈ surolad	99%	Powder	500g



POTASSIUM MANGANATE SOLUTION (VII)

KMnO₄ = 158.03g/mol

UN Class: N/A EC No.: 231-760-3 Danger

Cas No.: 7722-64-7 Index No.: 025-002-00-9

Hazard: Not considered hazardous

Precaution: No additional precautions required

ŀ	Cat No.	Grade	Assay	Info.	Per
Į	ESC55895	⊈ surciad	0.02M (0.1N)		1L

POTASSIUM PERSULPHATE (DIPOTASSIUM PEROXODISULPHATE)

 $K_2S_2O_8 = 270.32g/mol$





Danger

UN Class: 5.1 /UN1492 PG-III EC No.: 231-781-8 Cas No.: 7727-21-1 Index No.: 016-061-00-1

Hazard: H272 H302 H319 H335 H315 H334 H317

Precaution: P220 P261 P280 P305+P351+P338 P342+P311

Cat No.	Grade	Assay	Info.	Per
ESC55909	⊈ surplad	98%		500g

POTASSIUM METABISULPHITE (DIPOTASSIUM DISULPHITE)

 $K_2S_2O_5 = 222.32g/mol$

UN Class: N/A EC No : 240-795-3 Cas No : 16731-55-8 Index No.: Not listed

Warning

Hazard: H315 H319 H335

Precaution: P261 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55897	⊈ surolad	96%		500g

POTASSIUM SODIUM TARTRATE (ROCHELLE SALT)

KOCOCH(OH)CH(OH)COONa • 4H₂O = 282.22g/mol

UN Class: N/A EC No.: 206-156-8 Cas No.: 6381-59-5 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55912	⊈ surolad	99%		500g

POTASSIUM NITRATE

 $KNO_3 = 101.1g/mol$



UN Class: 5.1 /UN1486 PG-III Cas No.: 7757-79-1

EC No.: 231-818-8 Index No.: Not listed

Warning

Hazard: H272 Precaution: P220

Cat No.	Grade	Assay	Info.	Per
ESC55899	⊈ surplad	99%		500g

POTASSIUM SULPHATE

 $K_2SO_4 = 174.26g/mol$



UN Class: N/A Cas No.: 7778-80-5 EC No: 231-915-5 Index No.: Not listed

Hazard: H314

Precaution: P280 P310 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55914	⊈ surotad	>98%		500g

POTASSIUM NITRITE

 $KNO_2 = 85.1g/mol$



UN Class: 5.1 /UN1488 PG-II Cas No.: 7758-09-0

EC No.: 231-832-4 Index No.: 007-011-00-X Danger

Hazard: H272 H301 H400 Precaution: P220 P273 P301+P310

Cat No.	Grade	Assay	Info.	Per
ESC55901	⊈ surciad	97%		100g

POTASSIUM THIOCYANATE

KSCN = 97.18g/mol



EC No.: 206-370-1 UN Class: N/A Cas No.: 333-20-0

Index No.: 615-030-00-5

Warning

Hazard: H332 H312 H302 H412 Precaution: P273 P280

Cat No.	Grade	Assay	Info.	Per
ESC55917	⊈ surciad	97%		500g

POTASSIUM OXALATE 1-WATER (POTASSIUM ETHANEDIOATE)

 $(COOK)_2 \cdot H_2O = 184.23g/mol$



Warning

UN Class: N/A EC No.: 209-506-8 Cas No.: 6487-48-5 Index No.: Not listed

Hazard: H302 H312 Precaution: P280

Cat No.	Grade	Assay	Info.	Per
ESC55904	⊈ surctad	98%		500g

L-PROLINE

UN Class: N/A EC No.: 205-702-2 Cas No.: 147-85-3 Index No.: Not listed

Hazard: Not considered hazardous

Cat No.	Grade	Assay	Info.	Per
ESC55919	⊈ surciad	98%		5g



PROPANAL (PROPIONALDEHYDE)

CH₃CH₂CHO = 58.08g/mol



UN Class: 3 /UN1275 PG-II Cas No.: 123-38-6 EC No.: 204-623-0 Index No.: 605-018-00-8

Danger C

Hazard: H225 H319 H335 H315

Precaution: P210 P261 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55928	≜ surotad	97%		250ml

PROPANE-1-2-DIOL (PROPYLENE GLYCOL)

CH₃CH(OH)CH₂OH = 76.1g/mol

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55932	⊈ surotad	99%		500ml

PROPIONIC ACID (PROPANOIC ACID)

 $CH_3CH_2COOH = 74.08g/mol$



UN Class: 8(3) /UN3463 PG-II **Cas No.:** 79-09-4

EC No.: 201-176-3 Index No.: 607-089-00-0

Hazard: H314

Precaution: P280 P305+P351+P338 P310

Cat No.	Grade	Assay	Info.	Per
ESC55935	⊈ surplad	99%		250ml
ESC55936	⊈ surolad	99%		500ml

PROPAN-1-OL (N-PROPYL ALCOHOL)

CH₃CH₂CH₂OH = 60.1g/mol



UN Class: 3 /UN1274 PG-II Cas No.: 71-23-8

EC No.: 200-746-9 Dang Index No.: 603-003-00-0

Hazard: H225 H318 H336

Precaution: P210 P261 P280 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55921	⊈ surctad	99%		500ml

PROPAN-2-OL (ISO-PROPYL ALCOHOL)

 $(CH_3)_2CHOH = 60.1g/mol$



UN Class: 3 /UN1219 PG-II **Cas No.:** 67-63-0

EC No.: 200-661-7 Danger Index No.: 603-117-00-0

Hazard: H225 H319 H336

Precaution: P210 P261 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55924	⊈ surplad	99.5%		1L
ESC55925	⊈ surciad	99.5%		2.5L

PYRIDINE

 $C_5H_5N = 79.1g/mol$



Hazard: H225 H332 H312 H302

Precaution: P210

Cat No.	Grade	Assay	Info.	Per
ESC55939	⊈ surplad	99%		500ml

PYROGALLOL (1,2,3-TRIHYDROXYBENZENE)

 $C_6H_3(OH)_3 = 126.11g/mol$



UN Class: 6.1 /UN2811 PG-III Cas No.: 87-66-1 EC No.: 201-762-9 Index No.: 604-009-00-6 Warning

Danger

Hazard: H341 H332 H312 H302 H412

Precaution: P273 P281

Cat No.	Grade	Assay	Info.	Per
ESC55941	⊈ aurolad	99%		100g

QUININE

 $C_{20}H_{24}N_2O_2 \cdot 3H_2O = 378.47g/mol$



 UN Class: N/A
 EC No.: 205-003-2

 Cas No.: 130-95-0
 Index No.: Not listed

Hazard: H302 H315 H317 H319 H335

Precaution: P261 P280 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55943	⊈ surctad	97%		1g

RENNET POWDER

 $C_{20}H_{24}N_2O_2 \cdot 3H_2O = 378.47g/mol$



UN Class: N/A EC No.: 232-645-0
Cas No.: 9001-98-3 Index No.: 647-009-00-1

Hazard: H319 H335 H315 H334

Precaution: P261 P305+P351+P338 P342+P311

Cat No.	Grade	Assay	Info.	Per
ESC55945	⊈ surcted	N/A		25g

RESAZURIN TABLETS

 UN Class: N/A
 EC No.: N/A

 Cas No.: 5508-82-3
 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55947	⊈ aumlad	N/A	pH 4.2-6.3	25 pk
ESC55948	aurolad	N/A	pH 4.2-6.3	100 pk



RESORCINOL (BENZENE-1,3-DIOL)

 $C_6H_4(OH)_2 = 110.11g/mol$



UN Class: 6.1 /UN2876 PG-III EC No.: 203-585-2 Warning Cas No.: 108-46-3 Index No.: 604-010-00-1

Hazard: H302 H315 H319 H400

Precaution: P273 P305+P351+P338 P301+P312

Cat No.	Grade	Assay	Info.	Per
ESC55950	⊈ surciad	98%		100g

SCHIFF'S REAGENT (FOR DETECTION OF ALDEHYDES)

N/A



UN Class: N/A EC No.: N/A Danger Cas No.: N/A Index No.: Not listed

Hazard: H290 H314 H350

Precaution: P201 P280 P305+P351+P338 P310

Cat No.	Grade	Assay	Info.	Per
ESC55967	⊈ surplad	N/A		250ml

SAFRANIN O STAIN C.I.50240 (BASIC RED 2)

 $C_{20}H_{24}N_2O_2 \cdot 3H_2O = 378.47g/mol$



UN Class: N/A EC No.: 207-518-8 Dangei Cas No.: 477-73-6

Index No.: Not listed

Hazard: H318

Precaution: P280 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55956	⊈ surciad	N/A	Powder	5g

SCHULTZE'S SOLUTION (CHLOR-ZINC-IODINE SOLUTION)

N/A



UN Class: N/A EC No.: N/A Cas No.: N/A Index No.: Not listed

Hazard: H302 H314 H410

Precaution: P273 P280 P305+P351+P338 P310 P501

Cat No.	Grade	Assay	Info.	Per
ESC55969	⊈ surotad	N/A		100ml

SAFRANIN O 1% AQUEOUS SOLUTION

UN Class: N/A FC No.: 207-518-8 Cas No.: 477-73-6 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55953	⊈ surplad	1%	Solution	100ml

SEBACOYL CHLORIDE

N/A



UN Class: 8 /UN3265 PG-II EC No.: 203-843-4 Cas No.: 111-19-3 Index No.: Not listed

Hazard: H302 H310 H314

Precaution: P280 P302+P350 P305+P351+P338 P310

Cat No.	Grade	Assay	Info.	Per
ESC55972	⊈ surplad	97%		25ml

SALICYLIC ACID (2-HYDROXYBENZOIC ACID)

C₆H₄OHCOOH = 138.12g/mol



Danger

UN Class: N/A EC No.: 200-712-3 Cas No.: 69-72-7 Index No.: Not listed

Hazard: H302 H318

Precaution: P280 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55959	⊈ surplad	99%		100g
ESC55961	⊈ surciad	99%		500g
ESC55962	⊈ surctad	99.5%		1kg

SEBACOYL CHLORIDE 5% IN CYCLOHEXANE







Danger

UN Class: 3 /UN1145 PG-II EC No.: N/A Cas No.: N/A Index No.: Not listed

Hazard: H225 H304 H315 H336 H410

Precaution: P210 P273 P280 P301+P330+P331 P307+P311

Cat No.	Grade	Assay	Info.	Per
ESC55974	⊉ surotad	N/A		100ml

SILICA SAND (ACID WASHED)

UN Class: N/A EC No.: 231-545-4 Cas No.: 7631-86-9 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55965	⊈ sumlad	N/A	pH 4.2-6.3	5kg
ESC55964	⊈ sumlad	N/A	pH 4.2-6.3	1kg

L-SERINE

UN Class: N/A EC No.: 200-274-3 Cas No.: 56-45-1 Index No.: Not listed

Hazard: Not considered hazardous

- 1					
	Cat No.	Grade	Assay	Info.	Per
	ESC55976	≜ surotad	98.5%		5g



SILICA GEL

UN Class: N/A EC No.: 231-545-4
Cas No.: 112926-00-8 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55983	⊈ surplad	98%		500g

SILICA GEL SELF-INDICATING (BLUE-PINK)

N/A



 UN Class: N/A
 EC No.: 231-545-4
 Danger

 Cas No.: 112926-00-8
 Index No.: Not listed

Hazard: H350i H412

Precaution: P201 P273 P308+P313

Cat No.	Grade	Assay	Info.	Per
ESC55978	⊈ surciad	97%		500g

SILICA GEL SELF-INDICATING (ORANGE) (ORANGE TO COLOURLESS)

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55981	⊈ surciad	97%		500g

SILICON (IV) OXIDE (SILICON DIOXIDE)

 $SiO_2 = 60.08g/mol$



 UN Class: N/A
 EC No.: 231-545-4
 Warning

 Cas No.: 7631-86-9
 Index No.: Not listed

Hazard: H319 H335

Precaution: P261 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55985	⊈ surotad	97%		250g

SILVER NITRATE

 $AgNO_3 = 169.87g/mol$



 UN Class: 5.1 /UN1493 PG-II
 EC No.: 231-853-9
 Danger

 Cas No.: 7761-88-8
 Index No.: 047-001-00-2

Hazard: H272 H314 H410

Precaution: P220 P273 P280 P305+P351+P338 P310 P501

Cat No.	Grade	Assay	Info.	Per
ESC55993	⊈ surolad	99.9%		10g
ESC55994	⊈ surolad	99.9%		25g
ESC55996	≜ surotad	99.9%		100g

SILVER NITRATE 0.1M (0.1N) SOLUTION

 $AgNO_3 = 169.87g/mol$



 UN Class: 9 /UN3082 PG-III
 EC No.: 231-853-9
 Warning

 Cas No.: 7761-88-8
 Index No.: 047-001-00-2

Hazard: H315 H319 H412

Precaution: P273 P280 P305+P351+P338 P337+P313

Cat No.	Grade	Assay	Info.	Per
ESC55989	⊈ surplad	0.1M	0.1M (0.1N)	500ml
ESC55991	⊈ surplad	0.1M	0.1M (0.1N)	2.5L

SILVER SULPHATE

 $Ag_2SO_4 = 311.8g/mol$



 UN Class: N/A
 EC No.: 233-653-7
 Warning

 Cas No.: 10294-26-5
 Index No.: Not listed

Hazard: H315 H319 H335 H400

Precaution: P261 P273 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55998	⊈ surolad	98.5%		10g

SILVER WIRE

Ag = 107.87g/mol

Hazard: Not considered hazardous

Precaution: No additional precautions required

Notes: Approximately 150mm

Cat No. Grade Assay Info. Per					
Cat No.	Grade	Assay	Info.	Per	
ESC55987	⊈ surplad	N/A		10g	

SOAP SOLUTION

Hazard: H225 H371

Precaution: P210 P260

N/A

E



UN Class: 3 /UN1170 PG-II Cas No.: N/A

Index No.: Not listed

EC No.: N/A

Cat No.	Grade	Assay	Info.	Per
SC55999	⊈ surciad	N/A	Clark's	1L
SC56000	⊈ surolad	N/A	Wanklyn's	1L

Tel: +44 (0)203 8685740



United Kingdom

SODA LIME

N/A



 UN Class: 8 /UN1907 PG-III
 EC No.: N/A

 Cas No.: 8006-28-8
 Index No.: Not listed

Hazard: H314

Precaution: P280 P305+P351+P338 P310

Cat No.	Grade	Assay	Info.	Per
ESC56001	⊈ surplad	98%	Granualted	500g
ESC56002	≜ surplad	98%	Self-Indicating	1kg

SODIUM METAL IN LIQUID PARAFFIN

Na = 22.99g/mol

lo.: 231-132-9 Danger

UN Class: 4.3 /UN1428 PG-l EC No.: 231-132-9
Cas No.: 7440-23-5 Index No.: 011-001-00-0

Hazard: H260 H314

Precaution: P223 P231+P232 P280 P301+P310

Cat No.	Grade	Assay	Info.	Per
ESC56005	⊈ surciad	99%	SURCHARGE	50g
ESC56006	⊈ surciad	99%	SURCHARGE	100g

SODIUM ACETATE ANHYDROUS (SODIUM ETHANOATE)

CH₃COONa = 82.03g/mol



 UN Class: N/A
 EC No.: 204-823-8
 Warning

 Cas No.: 127-09-3
 Index No.: Not listed

Hazard: H319

Precaution: P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC56014	⊈ surciad	98%		500g

SODIUM ALGINATE

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC56018	⊈ surplad	97%		100g
ESC56020	⊈ surctad	97%		500g

SODIUM AZIDE

 $NaN_3 = 65.01g/mol$



Hazard: H300 H400 H410 EUH032

Precaution: P273 P501

Cat No.	Grade	Assay	Info.	Per
ESC56022	⊈ surctad	99%		100g

SODIUM BENZOATE

C₆H₅COONa = 144.1g/mol



 UN Class: N/A
 EC No.: 208-534-8
 Warning

 Cas No.: 532-32-1
 Index No.: Not listed

Hazard: H319

Precaution: P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC56025	⊈ surciad	99%		500g

SODIUM BICARBONATE SEE SODIUM HYDROGEN CARBONATE

SODIUM BISULPHATE SEE SODIUM HYDROGEN SULPHATE

SODIUM BOROHYDRIDE (SODIUM TETRAHYDRIDOBORATE)

 $NaBH_4 = 37.83g/mol$

Cas No.: 16940-66-2



EC No.: 241-004-4 Danger

Index No.: Not listed

Hazard: H260 H301 H311 H314

UN Class: 4.3 /UN1426 PG-I

Precaution: P223 P231+P232 P280 P301+P310

Cat No.	Grade	Assay	Info.	Per
ESC56027	⊈ surplad	99%	SURCHARGE	100g

SODIUM BROMATE

NaBrO₃ = 150.89g/mol





Danger

Hazard: H272 H302 H315 H319 H335 **Precaution:** P220 P261 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per	
ESC56030	⊈ surotad	99%		500g	,

SODIUM BROMIDE

NaBr = 102.89g/mol



Hazard: H319

Precaution: P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC56034	⊈ surctad	99%		500g



SODIUM CARBONATE 10-WATER

 $Na_2CO_3 \cdot 10H_2O = 286.14g/mol$



 UN Class: N/A
 EC No.: 207-838-8
 Warning

 Cas No.: 6132-02-1
 Index No.: 011-005-00-2

Hazard: H319

Precaution: P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC56037	≜ surotad	98%	Clark's	1kg

MANGANESE (II) CARBONATE

 $MnCO_3 = 114.95g/mol$

 UN Class: N/A
 EC No.: 209-942-9

 Cas No.: 598-62-9
 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
CHE291774	⊈ surciad	93%		500g

SODIUM CARBONATE ANHYDROUS

 $Na_2CO_3 = 105.99g/mol$



UN Class: N/A EC No.: 207-838-8 Warnin
Cas No.: 497-19-8 Index No.: 011-005-00-2

Hazard: H319

Precaution: P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC56044	≜ surplad	99%		500g
ESC56045	⊈ surolad	99%		1kg

SODIUM CHLORIDE - GRANULAR

NaCl = 58.44g/mol

UN Class: N/A EC No.: 231-598-3
Cas No.: 7647-14-5
Hazard: Not considered hazardous

Precaution: No additional precautions required Notes: Large Granules - 0.5-2cm grains Not suitable for human consumption

 Cat No.
 Grade
 Assay
 Info.
 Per

 ESC56056
 ∰2...⊏la²
 98%
 Granular
 1kg

SODIUM CHLORIDE - ROCK SALT (SODIUM CHLORIDE TECHNICAL)

Hazard: Not considered hazardous

Precaution: No additional precautions required Notes: Not suitable for human consumption

Cat No.	Grade	Assay	Info.	Per
ESC56058	⊈ aumlad	97%		1kg
ESC56059	⊈ surotad	97%		500g

SODIUM CHLORATE (V)

 $NaClO_3 = 106.44g/mol$



UN Class: 5.1 /UN1495 PG-II Cas No.: 7775-09-9

PG-II **EC No.:** 231-887-4 **Index No.:** 017-005-00-9

Hazard: H271 H302 H411 **Precaution:** P220 P273

Cat No.	Grade	Assay	Info.	Per
ESC56049	⊈ surotad	99%		500g

SODIUM CHROMATE 4-WATER

 $Na_{2}CrO_{4} \cdot 4H_{2}O = 234.03g/mol$



Dangei

Hazard: H350 H340 H360FD H330 H301 H372 H312 H314 H334 H317 H410

Precaution: P201 P260 P273 P280 P284 P301+P310

Cat No.	Grade	Assay	Info.	Per
ESC56061	⊈ surotad	96%		250g

SODIUM CHLORIDE

NaCl = 58.44g/mol

 UN Class: N/A
 EC No.: 231-598-3

 Cas No.: 7647-14-5
 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC56053	⊈ surciad	99%		500g
ESC56054	⊈ surciad	99%		1kg

TRI-SODIUM CITRATE 2-WATER

 $HOC(COONa)(CH_2COONa)_2 \bullet 2H_2O = 294.1g/mol$

 UN Class: N/A
 EC No.: 200-675-3

 Cas No.: 6132-04-3
 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC56244	⊈ surplad	99%		500g



SODIUM DICHROMATE (VI) ANHYDROUS

 $Na_2Cr_2O_7 = 268g/mol$







Danger

UN Class: 6.1(5.1) /UN3086 PG-II Cas No.: 10588-01-9

EC No.: 234-190-3 Index No.: 024-004-00-7

Hazard: H272 H350 H340 H360FD H330 H301 H312 H372 H314 H334 H317 H410

Precaution: P201 P220 P260 P273 P280 P284

Cat No.	Grade	Assay	Info.	Per
ESC56065	⊈ surotad	99%		500g

SODIUM FORMATE

HCOONa = 68.01g/mol

EC No.: 205-488-0 UN Class: N/A Cas No.: 141-53-7 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC56078	≜ surcted	98%		500g

SODIUM DIHYDROGEN PHOSPHATE 2-WATER

NaH₂PO₄ • 2H₂O = 156.01g/mol

UN Class: N/A EC No.: 231-449-2 Cas No.: 13472-35-0 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC56068	⊈ surciad	98%		500g

SODIUM HYDROGEN CARBONATE (SODIUM BICARBONATE)

NaHCO₃ = 84.01g/mol

EC No.: 205-633-8 UN Class: N/A Cas No.: 144-55-8 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC56085	⊈ surciad	99%		500g
ESC56086	⊈ surciad	99%		1kg

SODIUM DIHYDROGEN PHOSPHATE ANHYDROUS

NaH₂PO₄ = 119.98g/mol



UN Class: N/A Cas No.: 7558-80-7 EC No.: 231-449-2 Warning

Index No.: Not listed

Hazard: H319

Precaution: P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC56070	≜ surplad	98%		1kg

DI-SODIUM HYDROGEN PHOSPHATE 2-WATER

Na₂HPO₄ • 2H₂O = 177.99g/mol

UN Class: N/A EC No.: 231-448-7 Cas No.: 10028-24-7 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55254	⊈ surctad	98%		500g

SODIUM DODECYL SULPHATE (SODIUM LAURYL SULPHATE)

CH₃(CH₂)₁₁OSO₃Na = 288.38g/mol



UN Class: 4.1 /UN2926 PG-II

Danger FC No.: 205-788-1

Cas No : 151-21-3 Index No.: Not listed

Hazard: H228 H302 H311 H315 H319 H335

Precaution: P210 P261 P280 P305+P351+P338 P312

Cat No.	Grade	Assay	Info.	Per
ESC56072	⊈ surplad	98%		500g

DI-SODIUM HYDROGEN PHOSPHATE 12-WATER

Na₂HPO₄ • 12H₂O = 358.14g/mol

UN Class: N/A EC No.: 231-448-7 Cas No.: 10039-32-4 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55256	⊈ surolad	98%		1kg

SODIUM FLORIDE

NaF = 41.99g/mol



UN Class: 6.1 /UN1690 PG-III Cas No.: 7681-49-4

EC No.: 231-667-8 Danger

Index No.: 009-004-00-7

Hazard: H301 H319 H315

Precaution: P301+P310 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC56075	⊈ surciad	98%		500g

DI-SODIUM HYDROGEN PHOSPHATE ANHYDROUS

 $Na_2HPO_4 = 141.96g/mol$

UN Class: N/A EC No.: 231-448-7 Cas No.: 7558-79-4 Index No.: Not listed

Hazard: Not considered hazardous

Cat No.	Grade	Assay	Info.	Per
ESC55252	⊈ surctad	98%		500g



SODIUM HYDROGEN SULPHATE (SODIUM BISULPHATE)

NaHSO₄ = 120.06g/mol



UN Class: N/A EC No.: 231-665-7 Danger Cas No : 7681-38-1 Index No.: 016-046-00-X

Hazard: H318

Precaution: P280 P305+P351+P338

ļ					ı
	Cat No.	Grade	Assay	Info.	Per
	ESC56082	⊈ surciad	98%		500g

SODIUM HYDROXIDE 1.0M (1.0N) CVS

NaOH = 40g/mol



UN Class: 8 /UN1824 PG-II EC 215-NA65-5 Cas No.: 1310-73-2

Index

Hazard: H314

Precaution: P280 P305+P351+P338 P310

Notes: $6 \times 1M \ 100ml$ ampoules, each makes 1L of 0.1M solution. Chemical info shown for ampoule not diluted solution.

Cat No.	Grade	Assay	Info.	Per
ESC56090	≜ surotad	1.0M	Ampoule	6

011-0002:00-6

SODIUM HYDROXIDE - PEARL POWDER (CAUSTIC SODA)

NaOH = 40g/mol



UN Class: 8 /UN1823 PG-II EC No.: 215-185-5 Danger Cas No.: 1310-73-2 Index No.: 011-002-00-6

Hazard: H314

Precaution: P280 P305+P351+P338 P310

Cat No.	Grade	Assay	Info.	Per
ESC56095	⊈ surplad	96%	Pearl powder	500g

SODIUM HYDROXIDE 2.0M (2.0N)

NaOH = 40g/mol



Danger

UN Class: 8 /UN1824 PG-II EC No.: 215-185-5 Cas No.: 1310-73-2 Index No.: 011-002-00-6

Hazard: H314

Precaution: P280 P305+P351+P338 P310

Cat No.	Grade	Assay	Info.	Per
ESC56091	⊈ surplad	2.0M		1L

SODIUM HYDROXIDE - PELLETS (CAUSTIC SODA)

NaOH = 40g/mol



UN Class: 8 /UN1823 PG-II EC No.: 215-185-5 Danger Cas No.: 1310-73-2 Index No.: 011-002-00-6

Precaution: P280 P305+P351+P338 P310

Cat No.	Grade	Assay	Info.	Per
ESC56093	⊈ surplad	97%		500g

SODIUM HYDROXIDE 40% SOLUTION

NaOH = 40g/mol



UN Class: 8 /UN1824 PG-II EC No.: 215-185-5 Cas No.: 1310-73-2 Index No.: 011-002-00-6

Hazard: H314

Precaution: P280 P305+P351+P338 P310

Cat No.	Grade	Assay	Info.	Per
ESC56097	⊈ surciad	0.4%		1L

SODIUM HYDROXIDE 0.1M (0.1N)

NaOH = 40g/mol

UN Class: 8 /UN1824 PG-III EC No.: 215-185-5 Cas No.: 1310-73-2 Index No.: 011-002-00-6

Hazard: Not considered hazardous Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC56088	⊈ surciad	0.1M		1L

SODIUM HYDROXIDE 0.1M (0.1N) CVS

NaOH = 40g/mol



UN Class:8 /UN1824 PG-III EC No : 215-185-5 Danger Cas No.: 1310-73-2 Index No.: 011-002-00-6

Hazard: H314

Precaution: P280 P305+P351+P338 P310

Notes: $6 \times 1M$ 100ml ampoules, each makes 1L of 0.1M solution. Chemical info shown for ampoule not diluted solution.

Cat No.	Grade	Assay	Info.	Price	Per
ESC56089	⊉ surotad	0.1M	Ampoule	15.95	6

SODIUM HYPOCHLORITE SOLUTION

NaClO = 74.44g/mol



UN Class: 8 /UN1791 PG-III EC No.: 231-668-3 Cas No : 7681-52-9 Index No.: 017-011-00-1

Hazard: H314 H400 EUH031

Precaution: P260 P273 P280 P301+P330+P331 P303+P361+P353 P305

Tel: +44 (0)203 8685740

+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC56099	⊈ surotad	10 - 15%	_	2.5L



SODIUM IODATE

 $NaIO_3 \cdot H_2O = 215.91g/mol$



Danger

Cas No.: 7681-55-2

UN Class: 5.1 /UN1479 PG-II

EC No.: 231-672-5 **Index No.:** Not listed

Hazard: H272 H302 H334 H317 Precaution: P220 P261 P342+P311

Cat No.	Grade	Assay	Info.	Per
ESC56101	⊈ surotad	99.5%		100g

SODIUM NITRITE

NaNO₂ = 69g/mol







UN Class: 5.1 /UN1500 PG-III **Cas No.:** 7632-00-0

Hazard: H272 H301 H400

Precaution: P220 P273

EC No.: 231-555-9 Index No.: 007-010-00-4

Cat No.	Grade	Assay	Info.	Per
ESC56112	⊈ surciad	98%		500g

SODIUM OXALATE (SODIUM ETHANEDIOATE)

NaOOCCOONa = 134g/mol



UN Class: 6.1 /UN3467 PG-III

EC No.: 200-550-3

Warning

Cas No.: 62-76-0

Index No.: 607-007-00-3

vvarriiri

Hazard: H312 H302 Precaution: P280

Cat Na	Crada

Cat No.	Grade	Assay	Info.	Per
ESC56114	⊈ surolad	99.5%		500g

SODIUM IODIDE

NaI = 149.89g/mol



UN Class: N/A Cas No.: 7681-82-5 EC No.: 231-679-3 Index No.: Not listed Warning

Hazard: H315 H319 H400

Precaution: P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC56103	⊈ surctad	99%		100g

SODIUM PERSULPHATE (SODIUM PEROXODISULPHATE)

 $Na_2S_2O_8 = 238.1g/mol$







UN Class: 5.1 /UN1505 PG-III **Cas No.:** 7775-27-1

EC No.: 231-892-1 Index No.: Not listed Danger

Hazard: H272 H302 H315 H317 H319 H334 H335

Precaution: P220 P261 P280 P305+P351+P338 P342+P311

Cat No.	Grade	Assay	Info.	Per
ESC56117	⊈ surctad	96%		500g

SODIUM METABISULPHITE (SODIUM DISULPHITE)

 $Na_2S_2O_5 = 190.11g/mol$



UN Class: N/A Cas No.: 7681-57-4 **EC No.**: 231-673-0 Danger **Index No.**: 016-063-00-2

Hazard: H302 H318

Precaution: P280 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC56108	⊈ aurolad	98.5%		500g

TRI-SODIUM PHOSPHATE 12-WATER

 $Na_3PO_4 \cdot 12H_2O = 380.12g/mol$



UN Class: N/A EC Cas No.: 10101-89-0 Ind

EC No.: 231-509-8
Index No.: Not listed

Warning

Hazard: H315 H319 H335 Precaution: P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC56248	⊉ surolad	98%		500g

SODIUM NITRATE

NaNO₃ = 84.99g/mol



 UN Class: 5.1 /UN1498 PG-III
 EC No.: 231-554-3
 Warning

 Cas No.: 7631-99-4
 Index No.: Not listed

Hazard: H272 H302 H315 H319 H335 **Precaution:** P220 P261 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC56110	⊈ surctad	98%		500g

SODIUM SALICYLATE (SODIUM 2-HYDROXYBENZOATE)

HOC₆H₄COONa = 160.1g/mol





 UN Class: N/A
 EC No.: 200-198-0
 Danger

 Cas No.: 54-21-7
 Index No.: Not listed

Hazard: H302 H315 H318 H335

Precaution: P261 P280 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC56127	<u>Asurolad</u>	99%		250g



SODIUM SILICATE SOLUTION (SODIUM TRISILICATE)

 $Na_2O \cdot 3SiO_2 = 242.33g/mol$



 UN Class: N/A
 EC No.: 215-687-4
 Danger

 Cas No.: 1344-09-8
 Index No.: Not listed

Hazard: H314 H335

Precaution: P261 P280 P305+P351+P338 P310

Cat No.	Grade	Assay	Info.	Per
ESC56130	⊈ surciad	98%		2.5L

DI-SODIUM TETRABORATE 10-WATER (BORAX POWDER)

 $Na_2B_4O_7 \cdot 10H_2O = 381.37g/mol$

15.510.4

UN Class: N/A EC No.: 215-540-4 Danger Cas No.: 1303-96-4 Index No.: 005-011-01-1

Hazard: H360FD

Precaution: P201 P308+P313

Cat No.	Grade	Assay	Info.	Per
ESC55258	⊈ surplad	98%		500g

SODIUM SILICATE POWDER (SODIUM METASILICATE)

 $Na_2SiO_2 = 122.06g/mol$

 UN Class: 8 /UN3253 PG-III
 EC No.: 229-912-9
 Danger

 Cas No.: 6834-92-0
 Index No.: Not listed

Hazard: H314 H335

Precaution: P261 P280 P305+P351+P338 P310

Cat No.	Grade	Assay	Info.	Per
ESC56132	⊈ surplad	98%		500g

SODIUM THIOSULPHATE 5-WATER

 $Na_2S_2O_3 \cdot 5H_2O = 248.18g/mol$

 UN Class: N/A
 EC No.: 231-867-5

 Cas No.: 10102-17-7
 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC56143	⊈ surplad	99%		500g
ESC56144	⊈ surciad	99%		1kg

SODIUM SULPHATE ANHYDROUS

 $Na_2SO_4 = 142.04g/mol$

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC56134	⊈ surotad	99%		500g

SODIUM THIOSULPHATE ANHYDROUS

 $Na_2S_2O_3 = 158.11g/mol$

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC56146	⊈ surplad	97%		500g

SODIUM SULPHIDE 9-WATER

 $Na_2S \cdot 9H_2O = 240.18g/mol$



 UN Class: 8 /UN1849 PG-II
 EC No.: 215-211-5
 Danger

 Cas No.: 1313-84-4
 Index No.: 016-009-00-8

Hazard: H314 H400

Precaution: P273 P280 P305+P351+P338 P310

Cat No.	Grade	Assay	Info.	Per
ESC56136	⊈ surciad	95%		500g

SODIUM THIOSULPHATE 0.1M (0.1N)

 $Na_2S_2O_3 = 158.11g/mol$

 UN Class: N/A
 EC No.: 231-867-5

 Cas No.: 10102-17-7
 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC56140	⊈ surolad	0.1M		1L

SODIUM SULPHITE ANHYDROUS (SODIUM SULPHITE (IV))

 $Na_2SO_3 = 126.04g/mol$



 UN Class: N/A
 EC No.: 231-821-4
 Warning

 Cas No.: 7757-83-7
 Index No.: Not listed

Hazard: EUH031

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC56138	≜ surplad	96%		500g

SODIUM TAUROGLYCOCHOLATE SEE BILE SALTS

SODIUM THIOSULPHATE 1M (1N)

 $Na_{2}S_{2}O_{3} = 158.11g/mol$

 UN Class: N/A
 EC No.: 231-867-5

 Cas No.: 10102-17-7
 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC56142	⊈ surplad	1M		2.5L



SOIL INDICATOR - PH 4.0-8.0

UN Class: N/A EC No.: 216-643-7
Cas No.: 1633-05-2 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC56148	⊈ surciad	97%		500ml

SOLOCHROME BLACK	SEE ERIOCHROME BLACK T
STANNIC	SEE TIN (IV)
STANNOUS	SEE TIN (II)

STARCH

(C6H10O5)n

UN Class: N/A EC No.: 232-679-6
Cas No.: 9005-25-8 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC56149	⊈ surplad	N/A		100g
ESC56151	⊈ surplad	N/A		500g

STARCH - SOLUBLE

UN Class: N/A EC No.: 232-679-6
Cas No.: 9005-25-8 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC56153	⊈ surciad	N/A	Soluble	500g

SASTEARIC ACID (OCTADECANOIC ACID)TARCH

 $CH_3(CH_2)_{16}COOH = 284.48g/mol$



Warning

UN Class: N/A EC No.: 200-313-4
Cas No.: 57-11-4 Index No.: Not listed

Hazard: H315

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC56158	⊈ surplad	93%		500g
ESC56159	⊈ surolad	93%		1kg

STEEL WOOL

 UN Class: N/A
 EC No.: N/A

 Cas No.: N/A
 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC56161	⊈ surplad	N/A		450g

STRONTIUM CARBONATE

SrCO₃ = 147.63g/mol

UN Class: N/A EC No.: 216-643-7
Cas No.: 1633-05-2 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC56163	⊈ surplad	97%		100g

STRONTIUM CHLORIDE 6-WATER

SrCl₂ • 6H₂O = 266.62g/mol



 UN Class: N/A
 EC No.: 233-971-6
 Danger

 Cas No.: 10025-70-4
 Index No.: Not listed

Hazard: H318

Precaution: P280 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC56166	⊈ surciad	95%		100g

STRONTIUM NITRATE

 $Sr(NO_3)_2 = 211.63g/mol$



Hazard: H272 H302 H315 H319 H335 Precaution: P220 P261 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC56169	⊈ surotad	99%		100g

STYRENE MONOMER (PHENYLETHYLENE)

 $C_6H_5CH=CH_2 = 104.15g/mol$



 UN Class: 3 /UN2055 PG-III
 EC No.: 202-851-5

 Cas No.: 100-42-5
 Index No.: 601-026-00-0

Hazard: H226 H332 H319 H315 **Precaution:** P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC56171	⊈ surciad	99%		250ml

SUCROSE (CANE SUGAR)

 $C_{12}H_{22}O_{11} = 342.3g/mol$

 UN Class: N/A
 EC No.: 200-334-9

 Cas No.: 57-50-1
 Index No.: Not listed

Hazard: Not considered hazardous

Cat No.	Grade	Assay	Info.	Per
ESC56173	⊉ surplad	N/A		1kg
ESC56174	⊈ surplad	N/A		5kg



SUCCINIC ACID (BUTANEDIOIC ACID)

HOOCCH₂CH₂COOH = 118.09g/mol



Danger UN Class: N/A EC No.: 203-740-4 Cas No.: 110-15-6 Index No.: Not listed

Hazard: H315 H318 H335

Precaution: P261 P280 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC56176	⊈ surotad	99%		100g

SULPHANILIC ACID (4-AMINOBENZENE SULPHONIC ACID)

 $4-(H_2N)C_6H_4SO_3H = 173.19g/mol$



UN Class: N/A EC No.: 204-482-5 Warning

Cas No.: 121-57-3 Index No.: 612-014-00-X

Hazard: H319 H315 H317

Precaution: P280 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC56186	⊈ surciad	99 %		500g

SUDAN (III) C.I.26100

 $C_{22}H_{16}N_4O = 352.39g/mol$

UN Class: N/A EC No.: 201-638-4 Cas No.: 85-86-9 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC56178	⊈ surplad	N/A		100g

SULPHUR FINE POWDER

S = 32.07g/mol



Warning

UN Class: 4.1 /UN1350 PG-III EC No.: 231-722-6 Cas No.: 7704-34-9 Index No.: 016-094-00-1

Hazard: H228 H315

Precaution: P210 P302+P352

Cat No.	Grade	Assay	Info.	Per
ESC56188	⊈ aurolad	N/A		500g

SUDAN III ALCOHOLIC SOLUTION

 $C_{22}H_{16}N_4O = 352.39g/mol$



UN Class: 3 /UN1170 PG-II EC No.: N/A Danger Cas No.: N/A Index No.: Not listed

Hazard: H225 H302 H371

Precaution: P210 P280 P260 P301+P312

Cat No.	Grade	Assay	Info.	Per
ESC56180	⊈ surciad	N/A		100ml

SULPHURIC ACID 98%

 $H_2SO_4 = 98g/mol$



Dangei

UN Class: 8 /UN1830 PG-II EC No.: 231-639-5 Cas No.: 7664-93-9 Index No.: 016-020-00-8

Hazard: H314

Precaution: P280 P305+P351+P338 P310

Cat No.	Grade	Assay	Info.	Per
ESC56199	≜ surolad	98%		2.5L

SUDAN IV C.I.26105

 $C_{24}H_{20}N_4O = 380.44g/mol$

UN Class: N/A EC No.: 201-635-8 Cas No.: 85-83-6 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC56182	⊉ surotad	N/A		100g

SULPHURIC ACID 0.05M (0.1N)

 $H_2SO_4 = 98.08g/mol$

UN Class: N/A EC No.: 231-639-5 Cas No.: 7664-93-9 Index No.: 016-020-00-8

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC56193	⊈ surciad	0.05M		2.5L

SULPHAMIC ACID (AMIDOSULPHONIC ACID)

 $NH_2SO_3H = 97.09g/mol$



UN Class:8 /UN2967 PG-III EC No.: 226-218-8 Warning Cas No.: 5329-14-6 Index No.: 016-026-00-0

Hazard: H319 H315 H412

Precaution: P273 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC56184	⊈ surolad sack whose	99%		500g

SULPHURIC ACID 0.05M (0.1N) CVS

 $H_2SO_4 = 98.08g/mol$



Warning UN Class: 8 /UN2796 PG-II EC No : 231-639-5 Cas No.: 7664-93-9

Index No.: 016-020-00-8

Hazard: H315 H319

Precaution: P280 P305+P351+P338

Notes: 6 x 1M 100ml ampoules, each makes 1L of 0.1M solution. Chemical info shown for ampoule not diluted solution.

Cat No.	Grade	Assay	Info.	Per	
ESC56192	⊈ surotad	0.05M	Ampoule	6	



SULPHURIC ACID 0.5M (1.0N)

 $H_2SO_4 = 98.08g/mol$



Warning

UN Class: 8 /UN2796 PG-II Cas No.: 7664-93-9

EC No.: 231-639-5 Index No.: 016-020-00-8

Hazard: H315 H319

Precaution: P280 P305+P351+P338

L					
	Cat No.	Grade	Assay	Info.	Per
	ESC56190	⊈ surciad	0.5M		2.5L

L-(+)-TARTARIC ACID (2,3-DIHYDROXYBUTANEDIOIC ACID)

 $HO_2CCH(OH)CH(OH)CO_2H = 150.09g/mol$



Warning

UN Class: N/A EC No.: 201-766-0 Cas No : 87-69-4 Index No.: Not listed

Hazard: H315 H319 H335

Precaution: P261 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55456	⊈ surotad	99%		500g

SULPHURIC ACID 0.5M (1.0N) CVS

 $H_2SO_4 = 98.08g/mol$



UN Class:8 /UN2796 PG-II EC No.: 231-639-5 Warning

Cas No.: 7664-93-9

Index No.: 016-020-00-8

Hazard: H314

Precaution: P280 P305+P351+P338 P310

Notes: 6 x 1M 100ml ampoules, each makes 1L of 0.1M solution. Chemical info shown for ampoule not diluted solution.

Cat No.	Grade	Assay	Info.	Per
ESC56195	≜ surplad	0.5M	Ampoule	6

TETRACHLOROETHYLENE

CCl₂=CCl₂ = 165.83g/mol



UN Class: 6.1 /UN1897 PG-III EC No.: 204-825-9 Warning Cas No.: 127-18-4 Index No.: 602-028-00-4

Hazard: H351 H411

Precaution: P273 P281

Cat No.	Grade	Assay	Info.	Per
ESC56203	⊈ surotad	98%		1L

SULPHURIC ACID 1M (2N)

 $H_2SO_4 = 98.08g/mol$



UN Class: 8 /UN2796 PG-II Cas No.: 7664-93-9

EC No.: 231-639-5 Warning

Index No.: 016-020-00-8

Hazard: H315 H319

Precaution: P280 P305+P351+P3383

Cat No.	Grade	Assay	Info.	Per
ESC56196	⊈ surciad	1.0M		500ml

TETRAHYDROFURAN (OXOLANE)

 $C_4H_8O = 72.11g/mol$



Danger

UN Class: 3 /UN2056 PG-II Cas No.: 109-99-9

EC No.: 203-726-8

Index No.: 603-025-00-0

Hazard: H225 H319 H335 EUH019 Precaution: P210 P261 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC56205	⊈ surplad	99%		1L

SULPHURIC ACID 2M (4N)

 $H_2SO_4 = 98.08g/mol$



UN Class: 8 /UN2796 PG-II Cas No.: 7664-93-9

EC No.: 231-639-5 Danger

Index No.: 016-020-00-8

Hazard: H314

Precaution: P280 P305+P351+P338 P310

Cat No.	Grade	Assay	Info.	Per
ESC56198	⊈ surplad	2.0M		500ml

TETRAZOLIUM SALT (2,3,5-TRIPHENYLTETRAZOLIUM CHLORIDE)

 $[C_6H_5CN(N(C_6H_5))_2:N]C1 \cdot H_2O = 334.8g/mol$



Warning

Cas No.: 298-96-4

UN Class: N/A

EC No.: 206-071-6

Index No.: Not listed

Hazard: H315 H319 H335

Precaution: P261 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC56207	⊈ surciad	98%		25g

TANNIC ACID

C76H52O46 = 1701.2g/mol

UN Class: N/A EC No.: 215-753-2 Cas No.: 1401-55-4 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC56201	⊈ surolad	98%		100g

THIOUREA (THIOCARBAMIDE)

 $NH_2CSNH_2 = 76.12g/mol$







Warning

UN Class: 6.1 /UN2811 PG-III

EC No.: 200-543-5 Cas No.: 62-56-6 Index No.: 612-082-00-0

Hazard: H351 H361d H302 H411 Precaution: P273 P281

Cat No.	Grade	Assay	Info.	Per
ESC56209	<u>Asurolad</u>	98%		100g



L-THREONINE

CH₃CH(OH)CH(NH₂)CO₂H = 119.12g/mol

UN Class: N/A EC No.: 200-774-1 Cas No.: 72-19-5 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC56211	⊈ surotad	N/A		25g

TIN METAL - FOIL

Sn = 118.71g/mol

UN Class: N/A EC No.: 231-141-8 Cas No.: 7440-31-5 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC56222	⊈ surctad	99.5%	Foil 0.035mm	100g

THYMOL

2[(CH₃)₂CH]C₆H₃-5-(CH₃)OH = 150.22g/mol



UN Class: 8 /UN3261 PG-III EC No.: 201-944-8 Danger Cas No.: 89-83-8 Index No.: 604-032-00-1

Hazard: H302 H314 H411

Precaution: P260 P280 P305+P351+P338 P310

Cat No.	Grade	Assay	Info.	Per
ESC56217	≜ surplad	99.5%		100g

TIN METAL - GRANULATED

Sn = 118.71g/mol

UN Class: N/A EC No.: 231-141-8 Cas No.: 7440-31-5 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC56225	⊈ surolad	99.5%	Granulated	100g

THYMOL BLUE

 $C_{27}H_{30}O_5S = 466.59g/mol$

UN Class: N/A EC No.: 200-973-3 Cas No.: 76-61-9 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC56215	⊈ surciad	N/A		25g

TIN METAL - POWDER

Sn = 118.71g/mol

UN Class: N/A EC No.: 231-141-8 Cas No.: 7440-31-5 Index No.: Not listed

Hazard: H319 H335

Precaution: P261 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC56227	⊈ surciad	99%	Powder	1g

THYMOL BLUE 0.04% INDICATOR SOLUTION

UN Class: N/A Cas No.: N/A Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC56213	⊈ surolad	0.04%	Solution	500ml

TITANIUM (IV) OXIDE (TITANIUM DIOXIDE)

 $TiO_2 = 79.87g/mol$

UN Class: N/A EC No : 236-675-5 Cas No.: 13463-67-7 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC56228	⊉ surctad	98%		500g

THYMOLPHTHALEIN

 $C_{28}H_{30}O_4 = 430.54g/mol$

UN Class: N/A EC No.: 204-729-7 Cas No.: 125-20-2 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC56219	⊈ surciad	N/A		25g

TOLUENE (METHYL BENZENE)

 $C_6H_5CH_3 = 92.14g/mol$







UN Class: 3 /UN1294 PG-II EC No.: 203-625-9 Cas No.: 108-88-3 Index No.: 601-021-00-3

Hazard: H225 H361d H304 H373 H315 H336 Precaution: P210 P261 P281 P301+P310 P331

Cat No.	Grade	Assay	Info.	Per
ESC56230	⊈ surctad	98%		1L



TOLUIDINE BLUE O C.I.52040

 $C_{15}H_{16}ClN_3S = 305.83g/mol$

UN Class: N/A EC No.: 202-146-2 Cas No : 92-31-9 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC56233	⊈ surolad	N/A		25g

TRIETHYLAMINE

 $(C_2H_5)_3N = 101.19g/mol$



UN Class:3 /UN1296 PG-II EC No.: 204-469-4 Cas No.: 121-44-8 Index No.: 612-004-00-5

Hazard: H225 H332 H312 H302 H314

Precaution: P210 P280 P305+P351+P338 P310

Cat No.	Grade	Assay	Info.	Per
ESC56252	⊈ surotad	97%		500ml

TRICHLOROACETIC ACID

CCl₃COOH = 163.39g/mol

UN Class: 8 /UN1839 PG-II EC No.: 200-927-2 Danger Cas No.: 76-03-9 Index No.: 607-004-00-7

Hazard: H314 H410

Precaution: P273 P280 P305+P351+P338 P310 P501

Cat No.	Grade	Assay	Info.	Per
ESC56236	⊈ surciad	98%		100g

2-2-4-TRIMETHYLPENTANE (ISO-OCTANE)

(CH₃)₂CHCH₂C(CH₃)₃ = 114.23g/mol







Danger

UN Class: 3 /UN1262 PG-II EC No.: 203-892-1 Cas No.: 111-65-9 Index No.: 601-009-00-8

Hazard: H225 H304 H315 H336 H410

Precaution: P210 P261 P273 P301+P331 P501

Cat No.	Grade	Assay	Info.	Per
ESC54775	⊉ surctad	99%		1L

L-TRYPTOPHAN

EC No.: 200-795-6 UN Class: N/A Cas No.: 73-22-3 Index No · Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC56225	⊈ surolad	99%		25g

TRICHLOROETHYLENE (TCE)

ClCH=CCl₂ = 131.39g/mol



UN Class: 6.1 /UN1710 PG-III EC No.: 201-167-4 Cas No.: 79-01-6 Index No.: 602-027-00-9

Hazard: H350 H341 H319 H315 H336 H412

Precaution: P201 P261 P273 P281 P305+P351+P338 P308+P313

Cat No.	Grade	Assay	Info.	Per
ESC56239	⊈ surciad	97%		1L

L-TYROSINE

N/A



Warning

UN Class: N/A EC No.: 200-460-4 Cas No.: 60-18-4 Index No.: Not listed

Hazard: H315 H319 H335

Precaution: P261 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC56258	≜ surotad	98.5%		25g

TRIETHANOLAMINE (TRIS(2-HYDROXYETHYL)AMINE)

 $N(CH_2CH_2OH)_3 = 149.19g/mol$



Warning UN Class: N/A EC No.: 203-049-8 Cas No.: 102-71-6 Index No.: Not listed

Hazard: H319

Precaution: P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC56251	⊈ surolad	97%		1L

UNIVERSAL INDICATOR SOLUTION PH 4 - 11



UN Class: 3 /UN1170 PG-II EC No.: N/A Danger Cas No.: N/A Index No.: Not listed

Hazard: H371 Precaution: P260

Cat No.	Grade	Info.	Per
ESC56261	⊈ surplad	pH 4-11 Indicator Solution	500ml
ESC56262	⊈ surplad	pH 4-11 Indicator Solution	1L



URANYL NITRATE

 $UO_2(NO_3)_2 \cdot 6H_2O = 502.13g/mol$



 UN Class: 5.1 /UN1477 PG-II
 EC No.: 233-266-3
 Danger

 Cas No.: 13520-83-7
 Index No.: 092-002-00-3

Hazard: H330 H300 H373 H411

Precaution: P260 P280 P270 P301+P310 P501

Cat No.	Grade	Assay	Info.	Per
ESC562664	⊈ surolad	98%		1g
ESC562665	⊈ surplad	98%		5g

WHITE SPIRIT

N/A





39°C Danger

Dangei

Per

1L

51

Hazard: H226 H304 H336 H411

Precaution: P261 P273 P301+P310 P331

XYLENE (DIMETHYLBENZENE)

 $C_6H_4(CH_3)_2 = 106.17g/mol$

Cas No.: 1330-20-7

Precaution: P280

Cat No.

ESC56277

ESC56278

UN Class: 3 /UN1307 PG-III

Hazard: H226 H332 H312 H315

Grade

⊈suroladi

⊈eurolad

Assav

98%

98%

Cat No.	Grade	Assay	Info.	Per
ESC56272	⊈ surolad	N/A		1L
ESC56273	⊈ surplad	N/A		2.5L

EC No.: 215-535-7

Index No.: 601-022-00-9

Info.

UREA (CARBAMIDE)

 $NH_2CONH_2 = 60.06g/mol$

 UN Class: N/A
 EC No.: 200-315-5

 Cas No.: 57-13-6
 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC56267	⊈ surciad	99%		500g

L-VALINE

(CH₃)₂CHCH(NH₂)COOH = 117.15g/mol

UN Class: N/A EC No.: 200-773-6
Cas No.: 72-18-4 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC56269	⊉ surolad	99%		25g

YEAST - DRIED

 UN Class: N/A
 EC No.: N/A

 Cas No.: N/A
 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC56280	⊈ sumlad	N/A		100g
ESC56282	⊈ sumlad	N/A		500g

VANILLIN (4-HYDROXY-3-METHOXYBENZALDEHYDE)

 $C_8H_8O_3 = 152.15 g/mol$



 UN Class: N/A
 EC No.: 204-465-2
 Warning

 Cas No.: 121-33-5
 Index No.: Not listed

Hazard: H319

Precaution: P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC56270	⊈ surolad	N/A		100g

WATER DEIONISED

 $H_2O = 18.02g/mol$

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC56271	⊉ surplad	N/A		20L

ZINC METAL - FOIL

Zn = 65.39g/mol

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC56290	⊈ surctad	99%	Foil 0.38mm	250g

ZINC METAL - GRANULATED

Zn = 65.39g/mol

UN Class: N/A EC No.: 231-175-3 Cas No.: 7440-66-6 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC56285	⊈ surctad	99.9%	Granules	500g

ZINC CHLORIDE

 $ZnCl_2 = 136.3g/mol$



UN Class: 8 /UN2331 PG-III EC No : 231-592-0 Cas No.: 7646-85-7 Index No.: 030-003-00-2

Hazard: H302 H314 H410

Precaution: P273 P280 P305+P351+P338 P310 P501

Cat No.	Grade	Assay	Info.	Per
ESC56305	⊈ surciad	97.5%		500g

ZINC METAL - POWDER

Zn = 65.39g/mol

Warning

UN Class: 4.3(4.2) /UN1436 PG-II Cas No.: 7440-66-6

EC No.: 231-175-3 Index No.: 030-001-00-1

Hazard: H260 H250 H410 Precaution: P222 P223

Cat No.	Grade	Assay	Info.	Per
ESC56288	⊈ surolad	99%	SURCHARGE	100g

ZINC NITRATE 6-WATER

 $Zn(NO_3)_2$. $6H_2O = 297.49g/mol$



UN Class: 5.1 /UN1514 PG-II EC No.: 231-943-8 Cas No.: 10196-18-6 Index No.: Not listed

Hazard: H272 H302 H315 H319 H335 Precaution: P220 P261 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC56308	⊈ surctad	98%		500g

ZINC ACETATE (ZINC ETHANOATE)

 $Zn(CH_3COO)_2 . 2H_2O = 219.5g/mol$



Warning

UN Class:9 /UN3077 PG-III EC No.: 209-170-2 Cas No : 5970-45-6 Index No.: Not listed

Hazard: H302 H319 H400

Precaution: P273 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC56293	⊈ surolad	98.5%		500g

ZINC OXIDE

ZnO = 81.39g/mol



UN Class: 9 /UN3077 PG-III EC No.: 215-222-5 Cas No.: 1314-13-2 Index No.: 030-013-00-7

Hazard: H410 Precaution: P271 P501

Cat No.	Grade	Assay	Info.	Per
ESC563112	⊈ surplad	99.8%		500g

ZINC BROMIDE

 $ZnBr_2 = 225.2g/mol$



EC No.: 231-718-4 Danger UN Class: 8 /UN3260 PG-III Cas No.: 7699-45-8 Index No.: Not listed

Hazard: H314 H400

Precaution: P273 P280 P305+P351+P338 P310

Cat No.	Grade	Assay	Info.	Per
ESC56297	⊈ surplad	98%		500ml

ZINC SULPHATE 7-WATER

 $ZnSO_4 . 7H_2O = 287.54g/mol$



Danger UN Class: 9 /UN3077 PG-III EC No.: 231-793-3 Cas No.: 7446-20-0 Index No.: 030-006-00-9

Hazard: H302 H318 H410

Precaution: P273 P280 P305+P351+P338 P501

Cat No.	Grade	Assay	Info.	Per
ESC56316	⊈ surciad	98%		500g

ZINC CARBONATE BASIC (ZINC HYDROXIDE CARBONATE)

 $(ZnCO_3)_2 \cdot (Zn(OH)_2)_3 = 350.2g/mol$

UN Class: N/A EC No.: 226-076-7 Cas No.: 5263-02-5 Index No.: Not listed

Hazard: Not considered hazardous

Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC56301	⊈ surctad	54%		500g

ZINC SULPHIDE

ZnS = 97.46g/mol



UN Class: N/A EC No.: 215-251-3 Warning Cas No.: 1314-98-3 Index No.: Not listed

Hazard: Not considered hazardous

Cat No.	Grade	Assay	Info.	Per
ESC56320	⊈ surctad	N/A		500g





EduScience UK



We Contribute
To Future Education



Test Tube

Manufactured from boro 3.3 glass with fire polished rim, (pack of 100)

ESL56324 Size: 10 X 75MM
ESL56325 Size: 12 X 75MM
ESL56326 Size: 15 X 125MM
ESL56327 Size: 18 X 150MM
ESL56328 Size: 25 X 150MM



Test Tube

Manufactured from boro 3.3 glass with rim, (pack of 100)

ESL56332 Size: 10 X 75MM

ESL56333 Size: 12 X 75MM

ESL56334 Size: 16 X 125MM

ESL56335 Size: 18 X 150MM

ESL56336 Size: 25 X 150MM



Test Tube Without Rim

Manufactured from boro 3.3 glass without rim , (pack of 100)

ESL56339 Size: 10 X 75MM

ESL56340 Size: 12 X 75MM

ESL56341 Size: 16 X 125MM

ESL56342 Size: 18 X 150MM

ESL56343 Size: 25 X 150MM



Culture Tube Round Bottom

With Screw Cap

- Tubes Round Bottom With Screw Thread and Teflon Line
- Made from ASTM E-438 Type-1 Class A, Boro 3.3 glass
- With Screw Thread and Teflon Liner
- Leakproof
- Comes with PP Screw Cap

ESL56998 Size : 12 X 100MM 5 ml
ESL56999 Size : 16 X 100MM 10 ml
ESL57000 Size : 16 X 125MM 15ml
ESL57001 Size : 12 X 160MM 20ml



Burette Class AS With PTFE Key Stopcock

Clear glass ,with lot. Certificate ,tolerance: 0.05(MI) division: 0.1

ESL56348 Capacity: 25 ML ESL56349 Capacity: 50 ML



NEW NEW

Culture Tube Round Bottom

With Aluminum Stopper GL Thread W/ Aluminum Stopper GL Thread

ESL56345



Burette Class B With PTFE Key Stopcock

With amber graduation (economy model) with detachable PTFE key stopcock

ESL56346 Capacity: 25 ML ESL56347 Capacity: 50 ML



Burette Class B With Detachable PTFE Key Stopcock

With Amber graduation DIN ISO 385.

Tel: +44 (0)203 8685740

ESL56351 Capacity: 25 ML
ESL56352 Capacity: 50 ML





Burette Class B

With Glass Key Stopcock Clear glass with amber graduation din ISO 385.

> ESL56359 Capacity: 25 ML ESL56360 Capacity: 50 ML



Burette 50 ml Class B

DIN ISO 385 ,BORO 3.3 with Pinch Clip 0.10 ml BORO 3.3 with Pinch Clip 0.10 ml

ESL56350



Burette Class B

With Needle Valve PTFE Stopcock With amber graduation DIN ISO 385.

> ESL56353 Capacity: 25 ML ESL56354 Capacity: 50 ML



Burette Class As

With PTFE Key Stopcock Un serialized, graduation interval 0.2Ml, tolerance /- 0.1Ml

> ESL56362 Capacity: 25 ML ESL56363 Capacity: 50 ML ESL56364 Capacity: 100ML

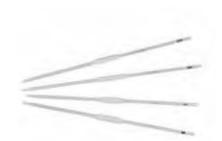


Burette Class As

With Glass Key Stopcock

Clear glass with amber graduation, with lot certificate, division 0.1, Tolerance 0.05(MI)

> ESL56357 Capacity: 25 ML ESL56358 Capacity: 50 ML



Pipette Volumetric Class AS

One mark, with Lot. Certificate

ESL56365 Capacity: 5 ML ESL56366 Capacity: 10 ML ESL56367 Capacity: 20 ML ESL56368 Capacity: 25 ML



ESL56371

Pipette Graduated (Serological), Class B

	Capacity	Subdivision	Tolerance	colour
ESL56373	2 ML,	0.1ML,	- 0.02ML	green
ESL56374	5 ML,	0.1ML,	- 0.02ML	Blue
ESL56375	10 ML,	0.1ML,	- 0.02ML	orange
ESL56376	25 ML,	0.1ML,	- 0.01ML	white





Pipette Graduated, Class AS Capacity 0.1 ML

Made of Borosilicate Glass AS, Color Coded, Amber Printing, Zero at the Top, Division 0.01 ML,

CAT NO	Capacity	CAT NO	Capacity
ESL56907	0.1ML,(0.01 ML)	ESL56914	5ML,(0.05 ML)
ESL56908	0.2ML,(0.01 ML)	ESL56915	5ML,(0.1 ML)
ESL56909	0.5ML,(0.01 ML)	ESL56916	10ML,(0.1 ML)
ESL56910	1ML,(0.01 ML)	ESL56917	20ML,(0.1 ML)
ESL56911	1ML,(0.1 ML)	ESL56918	25ML,(0.1 ML)
ESL56912	2ML,(0.01 ML)	ESL56919	25ML,(0.2 ML)
ESL56913	2ML,(0.10 ML)	ESL56920	50ML,(0.1 ML)

Pipette Transfer

Disposable Graduated Transfer Pipette Non Sterile

Capacity: 1 ML, ESL56378 ESL56379 Capacity: 2 ML, ESL56380 Capacity: 3 ML,



Pipette Aid

Pipette aid mad of polypropylene and silicon

ESL56390 Capacity: 2 ML, ESL56391 Capacity: 5 ML, ESL56392 Capacity: 10 ML, ESL56393 Capacity: 25 ML,



Wrapped in a peel off pouch-Sterile.

Disposable Graduated Transfer Pipette Individually

Capacity: 1 ML,

Capacity: 2 ML,

Pipette Transfer

ESL56383

ESL56384

Pipette Stand Rotary Vertical

Pipette stand rotary vertical pp, 94 places

ESL56395

Dropping Pipette With Rubber Teat

Single glass dropping pipette ,made of neutral glass Supplied with latex teat **Dropping Pipette** measures 125 mm length Useful for dispensing liquid from test tubes

ESL56389



Pipette Washer PP

Pipette washer PP

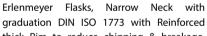
ESL56398



Flask Erlenmeyer Narrow Neck

Flask Erlenmeyer, Narrow neck These flasks are made from thick wall and $\,$ have reinforced thick beaded rim. The flasks are produced to meet ASTM E 1404 TYPE 1 specifications. All the flasks are printed in white enamel.

	Capacity	Subdivision	graduation range
ESL56420	50 ML	10ML	20-50ML
ESL56421	100 ML	OM	20-100ML
ESL56422	250 ML	5ML	50-225ML
ESL56423	500 ML	50ML	100-500ML
ESL56424	1000 ML	50ML	250-1000ML



Flask Erlenmeyer Narrow Neck

thick Rim to reduce chipping & breakage. ESL56412 Capacity: 50 ML ESL56413 Capacity: 100 ML ESL56414 Capacity: 250 ML ESL56415 Capacity: 500 ML Capacity: 1000 ML ESL56416

Tel: +44 (0)203 8685740



Flask Erlenmeyer Narrow Neck 250ML With Rubber Stopper

Erlenmeyer Flasks, Narrow Neck with graduation DIN ISO 1773 with Reinforced thick Rim to reduce chipping & breakage, Capacity 250ML

ESL56414SP



Erlenmeyer Flask with Screw-Cap

Erlenmeyer Flask with Screw-Cap

Red screw-cap	Standard joint	Capacity	CAT NO
heat resistance up to 180°C	(NS): 25	100 ML	ESL56411/100
heat resistance up to 180°C	(NS): 32	250 ML	ESL56411/250
heat resistance up to 180°C	(NS): 32	500 ML	ESL56411/500
heat resistance up to 180°C	(NS): 32	1000ML	ESL56411/1L



Flask Erlenmeyer Round Bottom Wide Neck

Flask Round Bottom Wide neck, with beaded rim DIN 12347, DIN ISO 1773,

CAT NO	Capacity
ESL56428W	100 ML
ESL56429W	250 ML
ESL56430W	500 ML
ESL56431W	1000ML

Flask Round Bottom Narrow Neck

Flask Round Bottom narrow neck, with beaded rim DIN 12347, DIN ISO 1773.

₾ **■**1000ml

ESL56433	Capacity: 100 ML
ESL56434	Capacity: 250 ML
ESL56435	Capacity: 500 ML
ESL56436	Capacity: 1000 ML
ESL56437	Capacity: 2000 ML



Erlenmeyer Flask with Screw-Cap

Erlenmeyer Flask with Screw-Cap

CAT NO	Capacity	Subdivision	GL
ESL56410/50	50 ML	10ML	40 IN 34/35
ESL56410/100	100 ML	20ML	40 IN 34/35
ESL56410/250	250 ML	50ML	52 IN 45/40
ESL56410/500	500 ML	100ML	52 IN 45/40
ESL56410/1L	1000 ML	200ML	52 IN 45/40



Flask Erlenmeyer Wide Neck

Flask Erlenmeyer, wide neck, These flasks are made from thick wall and have reinforced thick beaded rim. The flasks are produced to meet ASTM E 1404 TYPE 1 specifications. All the flasks are printed in white enamel.

ESL56427	Capacity: 50 ML
ESL56428	Capacity: 100 ML
ESL56429	Capacity: 250 ML
ESL56430	Capacity: 500 ML
ESL56431	Capacity: 1000 ML

Flask Flat Bottom Narrow Neck

Flask Flat Bottom, narrow neck, with beaded rim DIN ISO 1773.

ESL56440	Capacity: 100 ML
ESL56441	Capacity: 250 ML
ESL56442	Capacity: 500 ML
ESL56443	Capacity: 1000 ML
ESL56444	Capacity: 2000 ML



Flask Distillation With Side Arm

Distillation flask made of Boro silicate glass 3.3

	_
ESL56455	Capacity: 100 ML
ESL56456	Capacity: 250 ML
ESL56457	Capacity: 500 ML
ESL56458	Capacity: 1000 ML
ESL56459	Capacity: 2000 ML





Flask Volumetric Class A

Volumetric Flask Class A , With Polypropylene stopper and Lot Certificate

ESL56448	Capacity: 50 ML	NS 12/21
ESL56449	Capacity: 100 ML	NS 14/23
ESL56450	Capacity: 250 ML	NS 14/23
ESL56451	Capacity: 500 ML	NS 19/26
ESL56452	Capacity: 1000 ML	NS 24/29
ESL56453	Capacity: 2000 ML	NS 29/32



Flask Volumetric, Class B

Volumetric flask, White Polypropylene stopper ESL56400 Capacity: 5 ML NS 10/19 ESL56401 Capacity: 10 ML NS 10/19 ESL56402 Capacity: 25 ML NS 10/19 ESL56403 Capacity: 50 ML NS 12/21 ESL56404 Capacity: 100 ML NS 14/23 ESL56405 Capacity: 250 ML NS 14/23 ESL56406 Capacity: 500 ML NS 19/26 ESL56407 Capacity: 1000 ML NS 24/29

ESL56408 Capacity: 2000 ML NS 29/32



Mixing Cylinder, Boro 3.3, With Plastic Stopper

made of borosilicate glass 3.3 in compliance with DIN EN ISO 4788 , with hexagonal base and standard ground joint and poly stopper (PE)

ESL56978	Capacity: 25 ML	Class B blue graduation 25:0,5 ml NS 14/23
ESL56979	Capacity: 50 ML	Class B blue graduation 50:1 ml NS 19/26
ESL56980	Capacity: 100 ML	Class B blue graduation 100: 1 ml NS 24/29
ESL56981	Capacity: 250 ML	Class B blue graduation 250: 2 ml NS 29/32
ESL56982	Capacity: 500 ML	Class B blue graduation 500: 5 ml NS 34/35
ESL56983	Capacity: 1000 ML	Class B blue graduation 1000: 10 ml NS 45/40
ESL56984	Capacity: 2000 ML	Class B blue graduation 2000: 20 ml NS 45/40



Measuring Cylinder, Class B, Hex Base

 $Measuring\ Cylinder\ , Glass\ hexagonal\ base\ , Class\ B, To\ contain\ (TC),\ Double\ metric\ ,\ with\ protection\ collar.$

ESL56500	Capacity: 25 ML	Graduation Interval 1MI, Tolerance /- 0.25MI
ESL56501	Capacity: 50 ML	Graduation Interval 1MI, Tolerance /- 0.25MI
ESL56502	Capacity: 100 ML	Graduation Interval 1MI, Tolerance /- 0.5MI
ESL56503	Capacity: 250 ML	Graduation Interval 1MI, Tolerance /-1MI
ESL56504	Capacity: 500 ML	Graduation Interval 5MI, Tolerance /- 2MI



Measuring Cylinder , Class A, Round BaseMeasuring Cylinder , Round base , Class A , With LOT

Measuring Cylinder , Round base ,Class A ,With LOT certificate.

Class A	Class B	Capacity
ESL56480	ESL56480B	5 ML
ESL56481	ESL56481B	10 ML
ESL56482	ESL56482B	25 ML
ESL56483	ESL56483B	50 ML
ESL56484	ESL56484B	100 ML
ESL56485	ESL56485B	250 ML
ESL56486	ESL56486B	500 ML
ESL56487	ESL56487B	1000 ML



Measuring Cylinder, Class B, Hex Base

Measuring Cylinder , Hexagonal base ,Class B,To contain (TC), Single metric , Low form .

Tel: +44 (0)203 8685740

ESL56470	Capacity: 10 ML
ESL56471	Capacity: 25 ML
ESL56472	Capacity: 50 ML
ESL56473	Capacity: 100 ML
ESL56474	Capacity: 250 ML
ESL56475	Capacity: 500 ML
ESL56476	Capacity: 1000 ML



Measuring Cylinder, , Class B, Hex Base



Measuring Cylinder Graduated Class B, Hex Base, with Double Metric Scale, Cylinders are made to meet ASTM E 1272 norms and are printed in double scale with white enamel. All the cylinders from 10ml to 2000ml comes with the bumper guard.

- ······ -······· ·		
ESL56492	Capacity: 10 ML	
ESL56493	Capacity: 25 ML	
ESL56494	Capacity: 50 ML	
ESL56495	Capacity: 100 ML	
ESL56496	Capacity: 250 ML	
ESL56497	Capacity: 500 ML	
ESL56498	Capacity: 1000 ML	

Measuring Cylinder, Class B , Plastic Base.

Measuring Cylinder , Plastic base ,Class B,To contain (TC), Single metric , with protection collar.

ESL56461	Capacity: 10 ML
ESL56462	Capacity: 25 ML
ESL56463	Capacity: 50 ML
ESL56464	Capacity: 100 ML
ESL56465	Capacity: 250 ML
ESL56466	Capacity: 500 ML
ESL56467	Capacity: 1000 ML





Measuring Cylinder PP Class B

measuring cylinders - Class B , Material : Polypropylene

ESL56516	Capacity: 10 ML
ESL56517	Capacity: 25 ML
ESL56518	Capacity: 50 ML
ESL56519	Capacity: 100 ML
ESL56520	Capacity: 250 ML
ESL56521	Capacity: 500 ML
ESL56522	Capacity: 1000 ML
ESL56523	Capacity: 2000 ML



easuring Cylinders- PP

easuring Cylinders - Autoclavable Graduations, aterial: Polypropylene

ESL56509	Capacity: 25 ML
ESL56510	Capacity: 50 ML
ESL56511	Capacity: 100 ML
ESL56512	Capacity: 250 ML
ESL56513	Capacity: 500 ML



Measuring Cylinder PMP, Class A

Measuring Cylinder Class A, Material : Polymethylpentene

ESL56536	Capacity: 10 ML
ESL56537	Capacity: 25 ML
ESL56538	Capacity: 50 ML
ESL56539	Capacity: 100 ML
ESL56540	Capacity: 250 ML
ESL56541	Capacity: 500 ML
ESL56542	Capacity: 1000 ML
ESL56543	Capacity: 2000 ML



easuring Cylinder PMP, Class B

asuring Cylinder Class B, Material: Polymethylpentene

ESL56526	Capacity: 10 ML
ESL56527	Capacity: 25 ML
ESL56528	Capacity: 50 ML
ESL56529	Capacity: 100 ML
ESL56530	Capacity: 250 ML
ESL56531	Capacity: 500 ML
ESL56532	Capacity: 1000 M
ESL56533	Capacity: 2000 M



Beaker Low Form

Beaker low form, With graduation and spot , Made of borosilicate glass $3.3\ .$

ESL56544	Capacity: 10 ml
ESL56545	Capacity: 25 ml
ESL56546	Capacity: 50 ml
ESL56547	Capacity: 100 ml
ESL56548	Capacity: 250 ml
ESL56549	Capacity: 400 ml
ESL56550	Capacity: 600 ml
ESL56551	Capacity: 1000 ml
ESL56552	Capacity: 2000 ml
ESL56553	Capacity: 3000 ml



Beaker Tall Form

Beaker Tall form, borosilicate glass 3.3, with graduation and spout.

Capacity: 50 ML
Capacity: 100 ML
Capacity: 150 ML
Capacity: 250 ML
Capacity: 400 ML
Capacity: 600 ML
Capacity: 1000 ML





Beaker (Euro Design) PP

Autoclavable with Graduation, Material: Polypropylene

ESL56581 Capacity: 100 ml
ESL56582 Capacity: 250 ml
ESL56583 Capacity: 500 ml
ESL56584 Capacity: 1000 ml



Beaker Low Form , Heavy Duty

Beaker low form, Heavy duty borosilicate glass 3.3 , Tolled top rim , Double metric scales.

	Capacity	Graduation interval	graduation range
ESL56554	100 ml	10m	25-200ml
ESL56555	250 ml	25ml	25-200ml
ESL56556	400 ml	25ml	25-325ml
ESL56557	600 ml	50ml	50-500ml
ESL56558	1000 ml	100ml	100-1000ml
ESL56559	2000 ml	200ml	200-1400ml



Beaker Low Form

Beaker, low form, with slightly flared beaded top, double metric scale

	Capacity	Graduation interval	graduation range
ESL56572	50 ml	10ml	10-40ml
ESL56573	100 ml	10ml	20-80ml
ESL56574	250 ml	25ml	25-200ml
ESL56575	600 ml	50ml	50-500ml
ESL56576	1000 ml	50ml	100-1000ml
ESL56577	2000 ml	50ml	100-2000ml
ESL56578	5000 ml	50ml	100-5000ml

Tel: +44 (0)203 8685740





Beaker Griffin Low Form PMP

Beaker Griffin Low-form, Material: Polymethylpentene sold in Packs.

ESL56593	Capacity: 50 ml	12 pcs/pack
ESL56594	Capacity: 100 ml	12 pcs/pack
ESL56595	Capacity: 250 ml	6 pcs/pack
ESL56596	Capacity: 600 ml	4 pcs/pack
ESL56597	Capacity: 1000 ml	3 pcs/pack
ESL56598	Capacity: 2000 ml	1 Pc
ESL56599	Capacity: 5000 ml	1 Pc
ESL56600	Capacity: 10 litre	1 Pc



Beaker With Handle Low Form PMP,

Beaker Low-Form With Handle, Material: Polymethylpentene.

ESL56612 Capacity: 100 ML
ESL56613 Capacity: 250 ML
ESL56614 Capacity: 600 ML
ESL56615 Capacity: 1000 ML
ESL56616 Capacity: 2000 ML
ESL56617 Capacity: 5000 ML



Beaker With Handle Low Form PP

Beaker Low-Form With Handle ,Made of Polypropylene.

ESL56603 Capacity: 100 ml
ESL56604 Capacity: 250 ml
ESL56605 Capacity: 600 ml
ESL56606 Capacity: 1000 ml
ESL56607 Capacity: 2000 ml
ESL56608 Capacity: 5000 ml



Beaker Griffin Low Form PP

Beaker Griffin Low-form ,Polypropylene, supplied in Pk

ESL56585	Capacity: 50 ml	12 pcs/pack
ESL56586	Capacity: 100 ml	12 pcs/pack
ESL56587	Capacity: 250 ml	6 pcs/pack
ESL56588	Capacity: 600 ml	4 pcs/pack
ESL56589	Capacity: 1000 ml	3 pcs/pack
ESL56590	Capacity: 2000 ml	1 Pc
ESL56591	Capacity: 5000 ml	1 Pc
ESL56592	Capacity: 10 ltr	1 Pc

Pycnometer To Gay Lussac, Calibrated, Class A

Pycnometer to gay lussac, calibrated, class a, 10ml, without certificate, with Teflon stopper

ESL56630 Capacity: 5 ML
ESL56631 Capacity: 10 ML
ESL56632 Capacity: 25 ML







Winchester Bottle 2.5 Ltr
Winchester Bottle

ESL56636



Weighing Bottle Ground Squat Form 50X25mm

Weighing Bottles, Ground In Stopper Manufactured from ASTM 438 TYPE 1 boro 3.3 glass

ESL56633 50x35mm Capacity: 20 ml
ESL56634 65x35mm Capacity: 25 ml
ESL56635 90x40mm Capacity: 60 ml





Desiccators Vacuum With Stopcock Lid And Plate

Complies with IS 6128 Designed for use under vacuum Sturdy construction of borosilicate glass-ground glass flanges Plates are positioned on an internal ledge within the base Comes with glass stopcock at the top Generally used for drying of moist products, and for storage of moisture sensitive substances ,

ESL56624	ID Ground Flange APP. 100 mm.
ESL56625	ID Ground Flange APP. 150 mm.
ESL56626	ID Ground Flange APP. 200 mm.
ESL56627	ID Ground Flange APP. 250 mm.
ESL56628	ID Ground Flange APP. 300 mm.



Bottle Reagent Amber, Narrow Mouth

Bottles Reagent narrow mouth, manufactured from ASTM E 438 TYPE 1 BORO 3.3 GLASS in compliance to DIN ISO 4796 - 2 standards with standard ground joint & PP stopper, EN ISO 4796,

ESL56638	Capacity: 50 ML	N/S 19/26
ESL56639	Capacity: 100 ML	N/S 19/26
ESL56640	Capacity: 250 ML	N/S 19/26,
ESL56641	Capacity: 500 ML	N/S 19/26
FSI 56642	Capacity · 1000 MI	N/S 19/26



Bottle Reagent, Clear Glass

Bottles Reagent narrow mouth, manufactured from ASTM E 438 TYPE 1 boro 3.3 glass in compliance to DIN ISO 4796 - 2 standards with standard ground joint & PP stopper, EN ISO 479.

ESL56660	Capacity: 100 ml	N/S 14/23
ESL56661	Capacity: 250 ml	N/S 19/26
ESL56662	Capacity: 500 ml	N/S 24/29
ESL56663	Capacity: 1000 ml	N/S 24/29



Dessicators With Lid Plain 150 Mm

Desiccator with Lid, Plain, Die pressed, Neutral Glass with Porcelain perforated plate.

ESL56619	Diameter 100 MM
ESL56620	Diameter 150 MM
ESL56621	Diameter 200 MM
ESL56622	Diameter 250 MM
ESL56623	Diameter 300 MM



Bottle Reagent Autoclavable Screw Cap And Pouring Ring

Bottles Reagent narrow mouth, manufactured from ASTM E 438 TYPE 1 BORO 3.3 GLASS in compliance to DIN ISO 4796 - 1 standards autoclavable screw cap and pouring ring, EN ISO 479.

ESL56643	Capacity: 50 ML
ESL56644	Capacity: 100 ML
ESL56645	Capacity: 250 ML
ESL56646	Capacity: 500 ML
ESL56647	Capacity: 1000 ML
ESL56648/2L	Capacity: 2000 ML
ESL56648/5 L	Capacity: 5000 ML
ESL56648/10 L	Capacity: 10000 ML



Mixed Glassware - Class Pack

This mixed glassware class pack contains one each of the following: Beakers (50ml, 100ml, 250ml, 600ml, 1000ml),

Measuring cylinders (10ml, 25ml, 50ml, 100ml, 250ml),

Conical flasks (100ml, 250ml, 500ml),

Plastic beakers (50ml, 100ml, 250ml, 500ml, 1000ml),

 $Bulb\ pipettes\ (5ml,\ 10ml,\ 25ml),\ Glass\ funnel-75mm\ diameter,$

Evaporating basin - 75ml, Crucible - 25ml



Bottle Dropping Glass Pipette

Pipette dropping bottle having a three piece pipette section comprising a glass dropper, high density polythene stopper with dust- proof head

and vinyl teat. Both stopper and teat are highly resistant to chemical attack by acids and alkalis.

ESL56656 Capacity: 30 ml
ESL56657 Capacity: 60 ml
ESL56656EU Capacity: 30 ml
ESL56657EU Capacity: 30 ml
ESL56658EU Capacity: 100 ml





Bottle Round Boston HDPE

Narrow-Mouth Boston Round Bottle- Made of High density Polyethylene .sold in packs

ESL56665	Capacity: 4 ml	12pcs/pack
ESL56666	Capacity: 8 ml	12pcs/pack
ESL56667	Capacity: 15 ml	12pcs/pack
ESL56668	Capacity: 30 ml	12pcs/pack
ESL56669	Capacity: 60 ml	12pcs/pack
ESL56670	Capacity: 125 ml	12pcs/pack
ESL56671	Capacity: 250 ml	12pcs/pack
ESL56672	Capacity: 500 ml	12pcs/pack
ESL56673	Capacity: 1000 ml	6pcs/pack



Bottle Round Boston LDPE

Narrow-Mouth Boston Round Bottle-Made of low density polyethylene ,sold in packs.

ESL56676	Capacity: 8 ml	12pcs/pack
ESL56677	Capacity: 15 ml	12pcs/pack
ESL56678	Capacity: 30 ml	12pcs/pack
ESL56679	Capacity: 60 ml	12pcs/pack
ESL56680	Capacity: 125 ml	12pcs/pack
ESL56681	Capacity: 250 ml	12pcs/pack
ESL56682	Capacity: 500 ml	12pcs/pack
ESL56683	Capacity: 1000 ml	6pcs/pack



Bottle Dropping Amber

Amber glass dropping bottles with interchangeable stopper and rubber teat

ESL56649 Capacity: 30 ML
ESL56650 Capacity: 60 ML
ESL56651 Capacity: 120 ML



Bottle Dropping Clear

Dropping Bottles, Manufactured from ASTM E 438 TYPE 1 BORO 3.3 GLASS fitted with ground in interchangeable stopper and rubber teat.

ESL56652 Capacity : 30 ML
ESL56653 Capacity : 60 ML
ESL56654 Capacity : 120 ML



Universal Bottle With Screw Cap

Threaded glass bottle clear PP 28, with PP Screw Cap, Clear & Amber Glass

Clear Glass	Amber Glass	
ESL56706W	ESL56706WA	30 ml Wide Mouth
ESL56706W/10	ESL56706W/10A	30 ml Wide Mouth PK/10
ESL56706N/10	ESL56706N/10A	30 ml Narrow Mouth PK/10
ESL56707	ESL56707A	60 ml
ESL56708	ESL56708A	100 ml
ESL56709	ESL56709A	250 ml
ESL56716	ESL56716A	500 ml
ESL56717	ESL56717A	1000 ml

Spray Bottle

Adjustable spray pattern. Pistol grip handle and bottle.





Bottle Round Boston Amber-HDPE

Amber Narrow-Mouth Boston Round Bottle-Made of High density Polyethylene ,sold in packs

ESL56686	Capacity: 4 ml	12pcs/pack
ESL56687	Capacity: 8 ml	12pcs/pack
ESL56688	Capacity: 15 ml	12pcs/pack
ESL56689	Capacity: 30 ml	12pcs/pack
ESL56690	Capacity: 60 ml	12pcs/pack
ESL56691	Capacity: 125 ml	12pcs/pack
ESL56692	Capacity: 250 ml	12pcs/pack
ESL56693	Capacity: 500 ml	12pcs/pack
ESL56694	Capacity: 1000 ml	6pcs/pack



Bottle Round Boston LDPE

Wide Mouth Boston Round Bottle-Made of High density Polyethylene ,sold in packs

ESL56710	Capacity: 30 ML	12pcs/pack
ESL56711		12pcs/pack
ESL56712	Capacity: 125 ML	12pcs/pack
ESL56713	Capacity: 250 ML	12pcs/pack
ESL56714	Capacity: 500 ML	12pcs/pack
ESL56715	Capacity: 1000 MI	6pcs/pack



Bottle Round Boston Amber-HDPE

Amber Wide-Mouth Boston Round Bottle-Made of High density Polyethylene ,sold in packs

ESL56726	Capacity: 30 ML	12pcs/pack
ESL56727	Capacity: 60 ML	12pcs/pack
ESL56728	Capacity: 125 ML	12pcs/pack
ESL56729	Capacity: 250 ML	12pcs/pack
ESL56730	Capacity: 500 ML	12pcs/pack
ESL56731	Capacity: 1000 ML	6pcs/pack



Bottle Round Boston PP

Narrow-Mouth Boston Round Bottle-Made of Polypropylene, sold in packs.

ESL56697	Capacity: 4 ML	12pcs/pack
ESL56698	Capacity: 8 ML	12pcs/pack
ESL56699	Capacity: 15 ML	12pcs/pack
ESL56700	Capacity: 30 ML	12pcs/pack
ESL56701	Capacity: 60 ML	12pcs/pack
ESL56702	Capacity: 125 ML	12pcs/pack
ESL56703	Capacity: 250 ML	12pcs/pack
ESL56704	Capacity: 500 ML	12pcs/pack
ESL56705	Capacity: 1000 ML	6pcs/pack



Bottle Round Boston HDPE

Wide-Mouth Boston Round Bottle-Made of low density polyethylene ,sold in packs.

ESL56718	Capacity: 30 ML	12pcs/pack
ESL56719	Capacity: 60 ML	12pcs/pack
ESL56720	Capacity: 125 ML	12pcs/pack
ESL56721	Capacity: 250 ML	12pcs/pack
ESL56722	Capacity: 500 ML	12pcs/pack
ESL56723	Capacity: 1000 ML	6pcs/pack



Bottle Round Boston PP

 $\label{thm:cond} \mbox{Wide-Mouth Boston Round Bottle-Made of Polypropylene} \ , \ \mbox{sold in packs}.$

ESL56734	Capacity: 30 ML	12pcs/pack
ESL56735	Capacity: 60 ML	12pcs/pack
ESL56736	Capacity: 125 ML	12pcs/pack
ESL56737	Capacity: 250 ML	12pcs/pack
ESL56738	Capacity: 500 ML	12pcs/pack
ESL56739	Capacity: 1000 ML	6pcs/pack

Tel: +44 (0)203 8685740





Bottle Dropping Dispensing -LDPE

Drop-Dispenser Bottle Made of low density polyethylene, sold in packs

ESL56742	Capacity: 15 ML	12pcs/pack
ESL56743	Capacity: 30 ML	12pcs/pack
ESL56744	Capacity: 60 ML	12pcs/pack
ESL56745	Capacity: 125 ML	12pcs/pack
ESL56746	Capacity: 250 ML	6pcs/pack



Carboy With Spigot LDPE

Carboy with Spigot-Made of low density polyethylene.

ESL56750 Capacity: 10 LTR
ESL56751 Capacity: 20 LTR
ESL56752 Capacity: 50 LTR



Wash Bottle 500Ml

Wash bottles 500ml, Material: polyethylene

ESL56758



Washing up Bowl

Material : P

ESL56992

Plastic Container

Made of Polypropylene and polyethylene Capacity 200 ML, Size : 5.5 X 7 X 9.5 cm

ESL57462





Carboy Rectangular With Stopcock -HDPE

Rectangular Carboy with Stopcock-Made of High density Polyethylene.

ESL56754 Capacity: 5 LTR
ESL56755 Capacity: 10 LTR
ESL56756 Capacity: 20 LTR



Wash Bottle

Narrow-Mouth Wash Bottle-White Cap, sold in packs

ESL56760	Capacity: 125 ml	6pcs/pack
ESL56761	Capacity: 250 ml	6pcs/pack
ESL56762	Capacity: 500 ml	6pcs/pack
ESL56763	Capacity: 1000 ml	4pcs/pack



Wash Bottle Integral Side Spout

Wash Bottle-Integral Side Spout 1, sold in Packs.

 ESL56774
 Capacity: 125 ML
 6pcs/pack

 ESL56775
 Capacity: 250 ML
 4pcs/pack

 ESL56776
 Capacity: 500 ML
 4pcs/pack

 ESL56777
 Capacity: 750 ML
 4pcs/pack



Wash Bottle WM LDPE

Wide Mouth Wash Bottle made of low density polyethylene ,Safety Labelled -Distilled Water ,sold in packs.

ESL56767 Capacity: 500 ML 6pcs/pack **ESL56769** Capacity: 1000 ML 1 Pc





Crystallizing Dishes

Dishes, Crystallizing, with Spout, DIN 12337

ESL56779 Size: 70 X 40 MM
ESL56780 Size: 80 X 45 MM
ESL56781 Size: 95 X 55 MM



Petri Dish, Boro 3.3 Glass

petri dish, manufactured from boro 3.3 glass which can withstand repeated autoclaving. od 100mm, height 17mm

ESL56785 OD 100mm, HEIGHT 17mm

ESL56786 OD 100mm HEIGHT

ESL56787 OD 60mm, HEIGHT 20mm

Petri Dish

Petri dish disposable

ESL56788 Size: 100 mm x 14 mm Polypropylene autoclavable

ESL56789 Size: 90 mm x 14 mm Radiation sterile vent-ps, 90mmx14mm

ESL56790 Size: 90 mm x 14 mm Radiation sterile non vented-ps, 90mmx14mm





Thistle Funnel

Thick walled glass thistle funnel 11.5" -total length, 9.5" stem length. Reservoir is 1.5" in height with a 1.5" diameter and an interior diameter of 1". The outer diameter of the stem is .5" and the inner diameter is 2/16". This is a great unit for adding liquid to a narrow necked flask or other similar piece of lab ware.

Made of Borosilicate glass has the following heat tolerances: Strain Point -515°C Annealing Point 565°C Softening Point 820°C

ESL56819

Evaporating Dishes Ceramic, 70 ml

(EURO DESIGN) 75 x 30 mm(ODXH) made of porcelain, maximum temperature up-to 1150*C

ESL56782/10 10 ML
ESL56782/15 15 ML
ESL56782/25 25 ML
ESL56782 50 ML
ESL56783 70 ML
ESL56784 100 ML
ESL56784/125 125 ML





Mortar & Pestle

Pestle & Mortar made of porcelain, maximum temperature up t0 1150*C

ESL56792 Size: 100 mm x 70 mm (dxh)
ESL56793 Size: 130 mm x 80mm (dxh)
ESL56794 Size: 160 mm x 90mm (dxh)
ESL56795 Size: 216 mm x 114mm (dxh)



Separating Funnel

Separating funnel with glass stopcock and pp stopper Squibb shape $\label{eq:condition}$

Tel: +44 (0)203 8685740

 ESL56807
 Capacity: 125 ML
 NS: 29/32

 ESL56808
 Capacity: 250 ML
 NS: 29/32

 ESL56809
 Capacity: 500 ML
 NS: 29/32

 ESL56810
 Capacity: 1000 ML
 NS: 29/32





Funnel PP,

Funnel analytical made of polypropylene, with plain surfaces, short stem sold in packs

ESL56811	Diameter 35 mm	12 pcs/pack
ESL56812	Diameter 50 mm	13 pcs/pack
ESL56813	Diameter 55 mm	14 pcs/pack
ESL56814	Diameter 65 mm	15 pcs/pack
ESL56815	Diameter 75 mm	6 pcs/pack
ESL56816	Diameter 90 mm	7 pcs/pack
ESL56817	Diameter 100 mm	4 pcs/pack
ESL56818	Diameter 160 mm	2 pcs/pack





Crucible Porcelain

Made of porcelain with glazed high wall supplied with lid

ESL56827 Capacity: 15 ML
ESL56828 Capacity: 20 ML
ESL56829 Capacity: 25 ML
ESL56830 Capacity: 30 ML
ESL56831 Capacity: 40 ML



Watch Glass

Work well as lids for flasks and beakers, or holding small samples for observation under a low-power microscope.

ESL56841	DIA 50 MM
ESL56842	DIA 60 MM
ESL56843	DIA 75 MM
ESL56844	DIA 90 MM
ESL56845	DIA 100 MM
ESL56846	DIA 125 MM



Crucible Porcelain

Made of porcelain with glazed medium wall supplied with lid

ESL56821 Capacity: 15 ml
ESL56822 Capacity: 25 ml
ESL56823 Capacity: 50 ml
ESL56824 Capacity: 70 ml
ESL56825 Capacity: 100 ml



Crucible Porcelain

Made of porcelain with glazed low wall supplied with lid

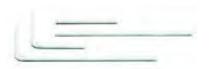
ESL56834 Capacity: 15 ML
ESL56835 Capacity: 20 ML
ESL56836 Capacity: 25 ML
ESL56837 Capacity: 30 ML
ESL56838 Capacity: 40 ML



Tube Delivery, Set Of 6

Different shapes tubes mad of borosilicate glass, outside dia. 6 mm Set of 6.

ESL56849



TUBE DELIVERY, SET OF 4

Different shapes tubes mad of borosilicate glass, outside dia. 6 mm Set of 4.:1 - Short straight, 70 mm length1 - Long straight, 170 mm length1 - 90° bend arms, 60 mm and 160 mm length1 - 90° bend arms, 60 mm length





Tiles Porcelain With 12 Cavities

White, with 12 cavities 22mm diameter.

ESL56852

Glass Stirring Rod

Glass rod made of soda glass

ESL56854 Length 150 mm dia App. 6 mm
ESL56855 Length 200 mm dia App. 6 mm
ESL56856 Length 250 mm dia App. 6 mm
ESL56857 Length 3000 mm dia App. 6 mm



Brush Beaker

ESL56859 Nylon 400 mm long Stainless steel wire handle. Size 150 x 85 mm

ESL56860 Bristle Standard beaker brush on a wooden handle. 325mm total length, brush approximately 150mm x 75mm

Brush Burette

on stainless steel wire handle, for burette cap. 25ml, and 50 ML

ESL56862	Nylon	For burette cap. 25ml,head dia 16mm, length 610mm
ESL56863	Nylon	For burette cap. 50ml, head dia 19mm, length 760mm
ESL56865	Bristle	For burette cap. 25ml,head dia 16mm, length 610mm
ESL56866	Bristle	for burette cap. 50ml, head dia 19mm, length 760mm



Brush Flask

ESL56868 Nylon For round bottom flask up-to 100 mm dia. on stainless steel wire handle. Overall length 330 mm,

ESL56869 Bristle For round bottom flask up-to 100 mm dia. on stainless steel wire handle. Overall length 330 mm

Brush Test Tube

With fan-shaped end, on stainless steel wire handle.

ESL56873	Nylon DIA 20 MM	L 90 mm, total length 230 mm
ESL56874	Nylon DIA 35 MM	L 100 mm, total length 280 mm
ESL56876	Bristle DIA 20 MM	L 90 mm, total length 230 mm
ESL56877	Bristle DIA 35 MM	L 100 mm, total length 280 mm



Brush Pipette

for pipettes and tubes from 8 - 12 mm dia

ESL568/9	Nylon	Head size 125 x 10 mm, overall length 650 mm
ESL56880	Bristle	Head size 125 x 10 mm, overall length 650 mm



With fan-shaped end on stainless steel wire handle. Suitable for Erlenmeyer flasks, cylinders and beakers

ESL56882	Nylon	Total Length-300 mm, Brush length-110 mm, Brush dia40 mm
ESL56883	Bristle	Total Length-450 mm, Brush length-150 mm, Brush dia75 mm



Tel: +44 (0)203 8685740





Flask Filtration

Reduced pressure these special flasks serve as collecting vessel for the filtrate. Made of borosilicate glass 3.3 very good chemical resistance minimal thermal expansion high resistance to thermal shocks autoclavable

•• Erlenmeyer shape, with Glass gose nozzle.

ESL57004 Capacity: 100 ml
ESL57005 Capacity: 250 ml
ESL57006 Capacity: 500 ml
ESL57007 Capacity: 1000 ml
ESL57008 Capacity: 2000 ml
ESL57009 Capacity: 3000 ml



Funnel Analytical PP , 100Mm Long Stem

Funnels- long stem 100mm autoclavable material: polypropylene

ESL56805

Funnel Boro Glass

Manufactured from ASTM E 438 TYPE 1 CLASS A BORO 3.3 GLASS. These funnels comply to ISO, DIN AND USP standards.

ESL56796	Diameter 45 MM
ESL56797	Diameter 55 MM
ESL56798	Diameter 65 MM
ESL56799	Diameter 70 MM
ESL56800	Diameter 75 MM
ESL56801	Diameter 80 MM
ESL56802	Diameter 100 MM
ESL56803	Diameter 150 MM







Porcelain Buchner Funnel

Made pf High-quality ceramic material, strong and corrosion-resistant. used for filtration purposes. It consists of a flat, perforated porcelain plate (known as the Büchner plate) with a cylindrical funnel-like shape attached to it

	Funnels with Perforated Filter Disc	Tube Dia	Hieght	NO of per- fortions
ESL57010	50 ml	14 mm	95 mm	19
ESL57011	120 ml	20 mm	120 mm	37
ESL57012	200 ml	24 mm	140 mm	61
ESL57013	400 ml	28 mm	170 mm	91
ESL57014	600 ml	32 mm	190 mm	127



Chlorine Test Strip

ESL57041 20 TEST 0 - 0.5 - 1 - 3 - 5 - 10 - 20 mg/L Cl ₂ 100 strips/Pk	
20 1231 0 0.3 1 3 3 10 20 mg/c Ci ₂ 100 3mp3/1 k	
ESL57042 300 TEST 0 - 25 - 50 - 100 - 200 - 300 mg/L Cl ₂ 100 strips/	/pk
ESL57043 1000 TEST 0 - 50 - 100 - 250 - 500 - 1000 mg/L Cl ₂ 100 strip	s/pk

Filter Paper

Qualitative Analysis filter papers Low Ash content 0.07%(Acid wash treated) High wet strength Made of 100% cotton liners GRADE NO 1

ESL57020	DIA 7 CM
ESL57021	DIA 9 CM
ESL57022	DIA 11 CM
ESL57023	DIA 12.5 CM
ESL57024	DIA 15 CM
ESL57025	DIA 18 CM



Filter Paper

Quantitative Analysis filter papers Low Ash content 0.07%(Acid wash treated) High wet strength Made of 100% cotton liners GRADE NO

-	_
ESL57031	DIA 7 CM
ESL57032	DIA 9 CM
ESL57033	DIA 11 CM
ESL57034	DIA 12.5 CM
ESL57035	DIA 15 CM
ESL57036	DIA 18 CM



Stand Base A-Shaped

Used for stand rod holder. Hole: 10 mm, without threads

Material: Cast iron Part of Reversible Pendulum.

ESL57067	Side length 120 mm	Dimension: (L) 12.00 x (W) 12.00 x (H) 3.00 cm, Weight: 0.400 kg
ESL57068	Side length 140 mm	Dimension: (L) 14.00 x (W) 14.00 x (H) 3.00 cm, Weight: 0.500 kg
ESL57069	Side length 190 mm	Dimension: (L) 19.00 x (W) 19.00 x (H) 4.50 cm, Weight: 2.000 kg
ESL57070	Side length 240 mm	Dimension: (L) 24.00 x (W) 24.00 x (H) 6.00 cm, Weight: 4.000 kg
ESL57071	Side length 270 mm	Dimension: (L) 270.00 x (W) 26.00 x (H) 6.00 cm. Weight 6.000 kg



Stand Road

Used as pillars in some experiments. Material: Stainless steel solid Part of Mechanics Kit for Senior High School.

ESL57073	DIA 10 X 100 mm,	Dimension : (L) 10.00 x (W) 1.00 x (H) 1.00 cm, Weight : 1.000 kg
ESL57074	DIA 10 X 1500 mm	Dimension : (L) 150.00 x (W) 1.00 x (H) 1.00 cm, Weight : 0.915 kg
ESL57075	DIA 10 X 500 mm	Dimension : (L) 50.00 x (W) 1.00 x (H) 1.00 cm, Weight : 0.200 kg
ESL57076	DIA 9 X 500 mm	Dimension : M8 x 9 mm, Part of Stand Base and Rod, Steel plate
ESL57077	DIA 10 X 1500 mm	Dimension : (L) 1.00 x (W) 1.00 x (H) 150.00 cm, Weight : 0.920 kg





Base Retort

Brass dial head about 40mm dia., Divided and marked in 100 divisions, vertical scale 10-0-10mm, fitted on heavy brass disc, with 3 pointed legs, distance between legs 40mm.

ESL57079	16CM X 10CM	(length x width)
ESL57080	20CM X 12.5CM	(length x width)
ESL57081	25CM X 16CM	(length x width)



Stand Set Base And Road, Steel Base

Stand Base and Rod, Steel Plate Uses as a tool for assembling laboratory equipment

Size of stand base: 210 x 140mm, thickness 4mm

Stand rod: Dia. 10 x 500mm

Material: Stand base steel plate, stand rod: stainless steel

Set **Consists of:** Square stand base Stand rod **Dimension:** 51.60 (L) x 22.60 (W) x 3.80cm (H)

Weight: 1.426Kg

ESL57087



Steel Rod

A range of Steel rods to suit all Stand bases.

ESL57082	50Cm x 11mm	(length x dia.)
ESL57083	60Cm x 11mm	(length x dia.)
ESL57084	75Cm x 12mm	(length x dia.)
FSI 57085	100Cm x 12mm	(length x dia)

Clamp Universal

Clamp for general use.

Size:

Total length: Dia 225 mm

Jaws opening: dia. 70 mm

Material: Aluminium die cas

with cork sheet

Completed with spiral spring, butterfly nuts and screw **Dimension**: (L) 22.00 x (W) 7.00 x (H) 3.00 cm

Weight: 0.170 kg

ESL57107



Retort Ring With Boss-head

Open ring retort support with boss-head made of Nickel chrome plated steel

ESL57110 Dia 60 mm **ESL57110** Dia 80 mm **ESL57111** Dia 100 mm

Stand Set Base & Road, Steel Base

Stand Set Base & Road , Steel Base $\,$









Burette Clamp

	ESL57094 Single		Polypropylene .Suitable for all burette up-to 100ml.
ESL57095 Double Polypro		Double	Polypropylene .Suitable for all burette up-to 100ml.
	ESL57098	Advanced, single	Comprising a high strength alloy casting jaws. Suitable for all burettes upto 100ml.
	ESL57099	Advanced, double	Comprising a high strength alloy casting laws. Suitable for all burettes upto 100ml.



Used to hold objects at stative.

Size: Grip range 20 - 50 mm, Material: Steel coated with Ni/Cr and paint, Equipped with spring and bolt fasteners, Dimension: (L) 30.00 x (W) 10.00 x (H) 7.50 cm, Weight: 0.180 KG

This universal retort stand clamp is made from aluminium and has 4 jaws. The jaws allow objects from 2 - 90 mm in diameter to be clamped securely. The design of the jaws ensures a firm grip at all angles of opening. The four interlocking jaws are cork lined. Overall length is 24 cm.

PVC coated die-cast jaw, with clamping to my-bar screw through swivels, mounted on 13.5 cm rod of dia. 8 mm jaw. Capacity 100mm and overall length 25 cm.

Three Finger Clamp, Swivel used to hold object at stative rod

Size: Grip of 2-70mm, Material: Zinc alloy with Ni/Cr plated
Without coil spring, The holder can be swivelled and fingers coated with PVC, One end is equipped with clamps and fasteners for mounting on the stative rod, **Dimension**: 30.00 (L) x 10.00 (W) x 7.50cm (H)"

2 Prong Single

This clamp is ideal for use with straight sides glassware and apparatus such as burette, tubes flask necks.

ESL57105 Adjustable Universal
With Boss-Head

This clamp is ideal for use with straight sides glassware and apparatus such as burette, tubes flask necks. The jaws are coated with non slip vinyl sleeve. Can hold objects of 8-30 mm dia. Overall length 22 cm.









Boss Head

ESL57114	Cast alloy	For use with laboratory stands, this popular boss head is made of die caste alloy. It accepts rods up to 16mm in diameter at a right angle to one another. Metal thumbscrews with blue plastic heads allow for adjustment. Measures approximately 11.7 x 3 x 3 cm in size.
ESL57115	Square for rod	Threaded metal one piece clamping screws • Able to hold rods up to 15 mm in diameter • Holds rods orthogonal (90 degrees) to one another. • All metal constructions to carry heavy loads and prevent torque damage
ESL57116	Die caste	Threaded metal one piece clamping screws Able to hold rods up to 16 mm in diameter Holds rods orthogonal (90 degrees) to one another. All metal constructions to carry heavy loads and prevent torque damage
ESL57117	Heavy duty	Thicker than normal 7 mm threaded clamping screws Thicker casting to support more load Accepts up to 16 mm rods Made of high strength powder coated alloy

All metal constructions to carry heavy loads and prevent torque damage



Suspension Clamps

Used to suspend a thermometer over a hot plate or a specific heat specimen. Clamp holds items at a distance of 110mm from the support rod. The hook is adjustable and locks at any angle.

ESL57090



Tong Beaker

Made of Stainless Steel with Coated Ends Rust free with superior quality Holds beakers from 50 mL to 2000 mL

ESL56891 Rubber lined jaw
ESL56892 Silicon lined jaw



Tong Crucible Straight

General purpose straight tongs, with corrugated jaws, used for handling of hot apparatus. Steel Chrome Plated,

ESL56885 Length: 150 MM St. Steel
ESL56886 Length: 200 MM St. Steel



Crucible Tongs With Bow

Crucible tongs with bow, General purpose tongs with bow and corrugated jaws used for handling hot apparatus.

ESL57118 Blackened steel 15CM length
ESL57119 Blackened steel 20CM length
ESL56888 St. Steel 15CM length
ESL56889 St. Steel 20CM length



Tong-Beaker, With Rubber Sleeves Cover

Jaws covered with rubber sleeves, Overall length of tong 30cm approx. Made of stainless steel

ESL56895



Tong Flask St. Steel Cork Lined Jaw

Stainless steel flask tongs with cork lined jaws. Fits flasks of any shape from 100-2000ml

ESL56894



Test Tube Stand Z Pattern - 200 X 125 X 75mm

Sturdy, corrosion-resistant (Z) pattern with three rows of holes. Stands can nest together for easy storage. Not suitable for use with solution containing mercury salts.

Size: 200 x 125 x 75mm Five holes: 28mm diameter Six holes: 19mm diameter Eight holes: 13mm diameter

ESL57123



Thermometer Stand

Thermometer Stand Supports 18 mm thermometers. Metal stand with a foam rubber cushion baseplate to protect thermometer bulbs. Size 165 \times 120 \times 125 mm.

ESL57122



Funnel Stand

Wooden, polished, with clamping screws. Rods are approx. 460 mm Length

ESL57125 Single Rod dia 17.5 mm.

Single base size 200 x 110 mm.

ESL57126 Double Rod dia 16 mm.

Double base size 290 x 110 mm





Burette Stand

Made of Hardwood burette rack made of hardwood - Stands 19.5" tall with single and Double arm to hold a burette. Base measures 7.75" (196.85 mm) x 4.25" (107.95mm) Smallest allowable diameter burette or tube is 10 mm diameter, with a threaded hole for the wooden support dowel.

Double

Black nylon thumb screws ESL57096 Single

ESL57097



Burette Rack Wooden

natural wood burette rack is perfect for storing and protecting burets in the lab. Dimensions: 80 x 7.5 x 57.5 CM capacity: 12 burette up to 2 cm diameter, coming with wall mounting brackets

ESL57093



TEST Tube Holder With Wooden Handel

Brass with wooden handle clamp for tubes up to 45 mm diameter.

ESL57147



Test Tube Rack Wooden,

Test tube stand wooden, 2 tier, wooden support with dovetail joining and 12 holes in two rows.

ESL57144 12 X 22mm. ESL57145 12 X 25mm.



Test Tube Holder Wooden

Made of hard wood with steel spring , the jaws will accept tubes up to 20 mm diameter.

ESL57148

Test Tube Rack Plastic

Test Tube Rack, Plastic

Used for test tube storage 10mm dia. To 16mm

Material: Plastic injection, knock-down system Consists of 12 holes 18mm dia.

Dimension: 18.00 (L) x 6.30 (W) x 10.50 cm (H)

Weight: 0.100Kg

ESL57128



Test Tube Half Rack

Poly-wire blue re-enforced nylon

ESL57130 Dia .13 MM ESL57131 Dia ,16 MM ESL57132 Dia .20 MM ESL57133 Dia ,25 MM



Test Tube Rack

Poly-wire blue-Re-enforced nylon

ESL57135 Dia ,13 MM ESL57136 Dia,16 MM ESL57137 Dia ,20 MM ESL57138 Dia ,25 MM ESL57139 Dia ,30 MM



Test Tube Rack

Poly-grid test tube rack blue polypropylene

ESL57141 Dia ,16 MM ESL57142 Dia ,20 MM ESL57143 Dia ,25 MM



Test Tube Stand (Wire Pattern)

Test tube stand (wire pattern) - 13mm x 90 Tubes

ESL57129



Test Tube Holder-Wire Pattern

Plated spring steel wire holder with finger grip. The jaws will accept tubes up to 40 mm diameter and their alignment maintained by a wire collar. Overall length 16 cm.

ESL57149



A basket with wide net like structure, useful for draining different laboratory apparatus after washing.Repeatedly autoclaved.Material: Polypropylene





Drying Rack,

Wall mounted corrosion free

ESL57151	20 PEGS
ESL57152	30 PEGS
ESL57153	48 Pegs ,coated wi

ESL57154 55 Pegs, coated wire

Made of abs material

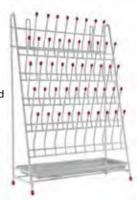
Made of steel / polyester

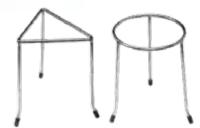
Plastic coated steel, wire tip are PVC coated

size 500 x 400 mm

Coated steel, wire tip are PVC coated

size 650 x 360 mm





Tripod Stand

all steel welded. Finished plated and legs are bent outward for stability.

ESL57155	Length of one side 12.5 cm	Top triangular, Height 20cm.
ESL57156	Length of one side 15 cm	Top triangular, Height 20cm.
ESL57158	dia 12.5 cm	Top circular, Height 20cm.
ESL57159	dia 15 cm	Top circular, Height 20cm.



Basic Chemistry Bundle Kit

includes:

10 x Natural Gas Bunsen Burners

10 x Tripod stands (130 x 200mm)

10 x Bench Mats With Calcium Silicate (230 x 230mm)

10 x 65mm Triangles Pipeclay

10 x 150mm x 150mm Iron Gauze Mats



Cork Stopper Bark

Cat. No	Size	Top	Length	Bottom
ESL57166	000	6	13	4
ESL57167	00	8	13	5
ESL57168	0	10	13	7
ESL57169	1	11	16	8
ESL57170	2	13	17	9
ESL57171	3	14	19	10
ESL57172	4	16	20	11
ESL57173	5	17	22	12
ESL57174	6	19	24	13
ESL57175	7	21	25	15
ESL57176	8	22	27	17
ESL57177	9	24	29	18
ESL57178	10	25	31	20
ESL57179	11	27	31	21
ESL57180	12	29	31	22
ESL57181	13	30	31	24
ESL57182	14	32	31	25
ESL57183	15	33	31	27
ESL57184	16	35	38	27
ESL57185	17	36	38	30
ESL57186	18	38	38	31
ESL57187	19	40	38	33
ESL57188	20	41	32	34

Tel: +44 (0)203 8685740

Cork Stopper Assorted PK

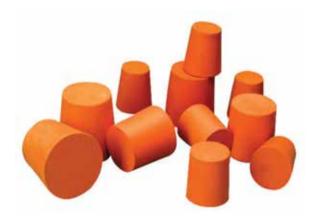
ESL57189

Laboratory Jack

Laboratory jack made of Aluminium

ESL57161 10 X 10 CM Max. Hight: 18cm ESL57162 15 X 15 CM Max. Hight: 25cm ESL57163 20 X 20 CM Max. Hight: 28cm





Stopper Rubber

Made of Solid, superior quality rubber resistance to acid, alkali and ammonia, suitable for schools, colleges and Universities.

	•	_	
Cat. No	Тор	Length	Bottom
ESL57195	7	16	5
ESL57196	9	16	6
ESL57197	10.5	20	8
ESL57198	11.5	20	9
ESL57199	12.5	20	10
ESL57200	14	24	11
ESL57201	16	24	13
ESL57202	18	24	15
ESL57203	20.5	26	27
ESL57204	21	26	18
ESL57205	22.5	28	19
ESL57206	24.5	28	21
ESL57207	26.5	28	23
ESL57208	28.5	28	25
ESL57209	31	32	27
ESL57210	31	32	29
ESL57211	36	35	31
ESL57212	38.5	38.5	33
ESL57213	45.5	36.5	35
ESL57214	42.5	40.5	38
ESL57215	49.5	40.5	40



Stopper Rubber One Hole, Pk Of 50 Pcs

Assorted containing 7 pcs. Each of size 8, 9, 11, 13, 15mm bottom dia and 3 pcs. Each of 17, 21, 23, 25, 29mm bottom dia with one hole. Pack of 50 pcs. Any other sets can be supplied as per specifications.

ESL57219



Stopper Rubber Tow Holes, Pk Of 50 Pcs

Assorted containing 7 pcs. Each of size 8, 9, 11, 13, 15mm bottom dia and 3 pcs. each of 17, 21, 23, 25, 29mm bottom dia. With two holes. Pack of 50 pcs. Any other sets can be supplied as per specifications.

ESL57236



Cork Borer Set 6

Nickel-plated finish. Complete with cleaning rod having good grip and pipes of thick gauge. Set of 6 sizes 4-10mm

ESL57277



4-18mm



Stopper Rubber Silicon

Made of Solid, superior quality Silicon resistance to acid, alkali and ammonia, suitable for schools, colleges and Universities.

Cat. No	Тор	Length	Bottom
ESL57253	7	16	5
ESL57254	9	16	6
ESL57255	10.5	20	8
ESL57256	11.5	20	9
ESL57257	12.5	20	10
ESL57258	14	24	11
ESL57259	16	24	13
ESL57260	18	24	15
ESL57261	20.5	26	17
ESL57262	21	26	18
ESL57263	22.5	22	19
ESL57264	24.5	28	20
ESL57265	26.5	28	23
ESL57266	28.5	28	25
ESL57267	31	32	27
ESL57268	31	32	29
ESL57269	36	35	31
ESL57270	38.5	38.5	33
ESL57271	45.5	36.5	35
ESL57272	42.5	40.5	38
ESL57273	49.5	40.5	40



Glass Tube Cutter

Glass tubing cutter, up to an outer diameter of 40 mm.





Tubing Glass

Made of Borosilicate glass 3.3, light wall, length 0.5mtr approx.

ESL57283	Dia:5mm
ESL57284	Dia:6mm
ESL57285	Dia: 7mm
ESL57286	Dia:8mm
ESL57287	Dia:9mm
ESL57288	Dia:10mm
ESL57289	Dia:12mm
ESL57290	Dia:14mm
ESL57291	Dia: 16mm
ESL57292	Dia:18mm
ESL57293	Dia: 20mm
ESL57294	Dia: 25mm



Tubing Clip

Tubing clip made of spring steel plated wire according to Mohr

ESL57351 Mohr For tube dia up to 45 mm
ESL57352 Mohr For tube dia up to 65 mm

Nickel plated, with projecting plate to prevent damage to tubing by end of screw, with hinged bottom bar for direct fitting and removed without access to ends of tube. Max. Opening 15 mm

ESL57353	Hoffmann	Max. Opening 15 mm
ESL57354	Hoffmann	Max. Opening 25 mm





Tubing Connector

Polypropylene, riffled end for rubber tubing. May be autoclaved. To fit tubing nominal bore.

ESL57342	Y SHAPE 4 MM
ESL57343	Y SHAPE 6 MM
ESL57344	Y SHAPE 8 MM
ESL57346	T SHAPE 4 MM
ESL57347	T SHAPE 6 MM
ESL57348	T SHAPE 8 MM

Visking Tubing

A cellulose based, selectively permeable material, in tube form, which can be used to demonstrate osmosis and dialysis separation techniques. 14mm diameter.

ESL57356 30 Mtr ESL57357 5 Mtr



Tubing Silicon

Seamless, non toxic, translucent very flexible suitable for connecting to glass, Pack per meter.

k per meter.	
ESL57314	2mm x 1mm (Bore x Wall Thickness).
ESL57315	3mm x 1mm (Bore x Wall Thickness).
ESL57316	$3 mm \ x \ 1.5 mm \ (Bore \ x \ Wall \ Thickness).$
ESL57317	4mm x 1mm (Bore x Wall Thickness).
ESL57318	$4mm\ x\ 1.5mm\ \ (Bore\ x\ Wall\ Thickness).$
ESL57319	5mm x 1mm (Bore x Wall Thickness).
ESL57320	5mm x 1.5mm (Bore x Wall Thickness).
ESL57321	6mm x 1mm (Bore x Wall Thickness).
ESL57322	6mm x 1.5mm (Bore x Wall Thickness).
ESL57323	6mm x 2mm (Bore x Wall Thickness).
ESL57324	6mm x 3mm (Bore x Wall Thickness).
ESL57325	7mm x 1.5mm (Bore x Wall Thickness).
ESL57326	7mm x 2mm (Bore x Wall Thickness).
ESL57327	8mm x 1.5mm (Bore x Wall Thickness).
ESL57328	8mm x 2mm (Bore x Wall Thickness).
ESL57329	8mm x 3mm (Bore x Wall Thickness).
ESL57330	9mm x 2mm (Bore x Wall Thickness).
ESL57331	10mm x 2mm (Bore x Wall Thickness).
ESL57332	10mm x 3mm (Bore x Wall Thickness).
ESL57333	12mm x 2mm (Bore x Wall Thickness).
ESL57334	12mm x 3.5mm (Bore x Wall Thickness).
ESL57335	14mm x 3mm (Bore x Wall Thickness).
ESL57336	14mm x 3mm (Bore x Wall Thickness).
ESL57337	16mm x 3mm (Bore x Wall Thickness).
ESL57338	25mm x 4mm (Bore x Wall Thickness).



Tubing Connector U Shape Plastic

Polypropylene, riffled end for rubber tubing. May be autoclaved. To fit tubing nominal bore.

ESL57340 U SHAPE 6 MM ESL57341 U SHAPE 8 MM

Tubing Connector U Shape Glass

Glass, riffled end for rubber tubing. To fit tubing nominal bore.

ESL57340G U SHAPE 6 MM ESL57341G U SHAPE 8 MM



Viscometer Ostwald

Suitable for transparent liquids manual measurement, foaming liquids, liquid mixture with highly volatile components, and high or low temperature measurements

ESL57865



Tubing Rubber

Soft quality, resistant to acid and alkalis. Pack of 10 meters. Orange Color.

•	
ESL57298	3 mm x 1 mm (Bore x Wall Thickness).
ESL57299	4 mm x 1 mm (Bore x Wall Thickness).
ESL57300	5 mm x 1.5 mm (Bore x Wall Thickness).
ESL57301	6 mm x 1.5 mm (Bore x Wall Thickness).
ESL57302	7 mm x 1.5 mm (Bore x Wall Thickness).
ESL57303	8 mm x 1.5 mm (Bore x Wall Thickness).
ESL57304	9 mm x 2 mm (Bore x Wall Thickness).
ESL57305	10 mm x 2 mm (Bore x Wall Thickness).
ESL57306	12 mm x 2 mm (Bore x Wall Thickness).
ESL57307	15 mm x 3 mm (Bore x Wall Thickness).
ESL57308	16 mm x 3 mm (Bore x Wall Thickness).
ESL57309	19 mm x 3 mm (Bore x Wall Thickness).
ESL57310	20 mm x 3.5 mm (Bore x Wall Thickness).
ESL57311	25 mm x 3.5m m (Bore x Wall Thickness).





Bunsen Burner Nickel

Nickel plated burner tube with rotatable air regulator and cylindrical connector. Mounted in pressure die costed base.

ESL57362 For LPG gas
ESL57363 For natural gas



Economy Bunsen Burner Adjustable

An excellent adjustable bunsen burner for use with natural gas. Heavyduty cast iron base provides an extra measure of stability. The unit has a chrome-plated steel tube with air regulator and threaded needle valve. Junior high and high school level.

ESL57361



Bunsen Burner

Piezo ignition, Adjustable flame, Refillable butane tank, Applications: Sterilizing, Welding, Heating , Technical Specification, Max. Temperature 1300 Fuel tanker capacity 45 g, Working time 60 Min, **Dimension :** (H x W x D) mm 92 x 115 x 79

ESL57367 PORTABLE
ESL57368 LAB TORCH
ESL57369 LAB PORTABLE



Spirit Lamp Glass

Reference Capacity 100 (ml) Outside Ø 70 (mm)

ESL57370







Bench Mats

Made of cork , ideal for use with round bottom flask ,

ESL57372 For flask capacity 50-100 ml Diameter 80 mm

ESL57373 For flask capacity 250 ml Diameter 100 mm

ESL57374 For flask capacity 500 ml Diameter 120 mm



Bench Mats

Made from calcium silicate, ideal for use under Bunsen burner, well finished edges

ESL57375 Size: 150 x 150 mm
ESL57376 Size: 200 x 200 mm
ESL57377 Size: 230 x 230 mm
ESL57378 Size: 300 x 300 mm

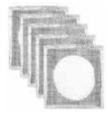
ESL57360 Length 3 FT (.9M)



Wire Gauze With Ceramic Centre

Wire gauze with ceramic centres - high quality and extra strong

ESL57379 Size: 125 x 125 mm **ESL57380** Size: 150 x 150 mm



Wooden Splints

Soft dry wood for general laboratory use. Size 5 x 140 mm.

ESL57386 Pack of 100
ESL57387 Pack of 1000



Spatula With Spoon

One end flat and the other end spoon form, polished..

Tel: +44 (0)203 8685740

ESL57390 Total length 12.5 cm
ESL57391 Total length 15 cm
ESL57392 Total length 20 cm





Trowel

Stainless steel, double ended with trowel-shaped scoops for handling large quantities of material. Length 175 mm and mean width 15 mm

ESL57396

Pip-clay Triangle

On stout iron wire, pipe-clay stems. Pk/10

ESL57382 One side length 55 mm
ESL57383 One side length 65 mm
ESL57384 One side length 75 mm



Spatula Chattaway

One end flat and the other end bent up, polished.

ESL57388 Total length 15 cm
ESL57389 Total length 20 cm

Nuffield Raised Centre 14 cm

Raised centre section , one end flat and bent up and other end formed into a scoop. Stainless steel, length 14 cm

ESL57395



Spatula Spoon PP

arrange of robust, general purpose PP spatulas - Excellent chemical resistance - Scraper plus spoon configuration - Suitable for use in food and beverage industry - Autoclavable.

ESL57404/15 Spatula Spoon PP 150MM ESL57404/20 Spatula Spoon PP 200MM



Measuring Scoop

EDU dual purpose scoop is designed to combine the function of a scoop, weigh boat, & funnel to make this product economically beneficial. These scoops have locking tabs that help to retain materials. These scoops can withstand powders, gels, and semi-solids

Measuring Scoop PP 2ML
Measuring Scoop PP 5ML
Measuring Scoop PP 10ML
Measuring Scoop PP 25ML
Measuring Scoop PP 50ML
Measuring Scoop PP 100ML
Measuring Scoop PP 250ML
Measuring Scoop PP 500ML
Measuring Scoop PP 1000ML

Stirring Bar

Dia 10Mm X H - 25 mm PP.

ESL57397

One end flat and the other end bent up, polished.

Size	Pack Size
8 x 13	10
8 x 16	10
8 x 19	10
8 x 22	10
8 x 25	10
8 x 30	10
8 x 38	10
8 x 41	10
8 x 51	5
8 x 64	5
	8 x 13 8 x 16 8 x 19 8 x 22 8 x 25 8 x 30 8 x 38 8 x 41 8 x 51



Stirring Rod PP

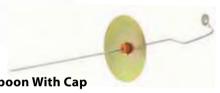
Stirring Rod

ESL57400

Magnetic Retriever

Magnetic Retriever PTFE/Alnico V Magnet, 30cm, 2pcs/pack

ESL57398



Deflagrating Spoon With Cap

Steel cup and rod held by cork in aluminium cap, length 35 cm and diameter of cap 90 mm cup 18 mm

ESL57402

Wire Holder, Plastic Handle

Wire holder with plastic handle



Tube Combustion

Borosilicate glass, open both ends, for oxidisation and reduction of chemical substances. Length 30 cm.

ESL57410 OD 24 mm, Bore 20 mm
ESL57411 OD 22mm, Bore 17mm
ESL57412 OD 17mm, Bore 11mm

Tube Combustion, Borosilicate Glass

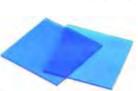
Borosilicate glass, for reduction of metal oxides with hydrogen. A small hole in the side of the lower end of the tube allows for escape of gas. Length 15 cm and dia. 2.5 cm.

ESL57413

Cobalt Glass

For potassium dry reaction

ESL57405 SIZE: 7.5 X 5 CM **ESL57406** SIZE: 5 X 2.5 CM







Universal Indicator Paper PH 1-14

This test paper covers the range pH1 to 14. Box of 10 books each of 20 leaves, 65 x 10mm. 12 colour matches are printed on each book cover.

ESL57421



Litmus Paper Red

10 books each with 20 strips. Red Pk/200 Strips: Range pH 8-5, colour change.

ESL57415

ESL57415/100

Litmus Paper Red Pk/100 strips Blue Pk/200 Strips

Range pH 8-5, colour change.

ESL57417

Blue Litmus Paper Pk/100 strips Neutral Pk/200 Strips

Colour change to red or neutral.

ESL57419

ESL57417/100

Neutral Pk/100 Strips

ESL57419/100



Parafilm

No matter whether you wish to seal beakers, Erlenmeyer flasks, weighing bottles or graduated cylinders, the highly elastic and stretchable Parafilm® M laboratory film fits the opening of any vessel. It saves specimens from contamination or evaporating. Furthermore, it prevents fallen over flasks from spilling. Parafilm® M stretches up to 200 % of its original size and clings even around irregular shapes and surfaces.

> ESL57435 Size: 100 mm x 38 mtr ESL57436 Size: 100 mm x 75 mtr ESL57437 Size: 50 mm x 75 mtr



Cobalt Chloride Test Paper

Heat sensitive, colour change blue to pink with moisture. Depending upon humidity, papers may be pink on receipt and will need drying before use. Box of 10 books

FSI 57425



Temperature Strip

A self adhesive liquid crystal thermometer with a temperature range of 10°C to 40°C. Approx size: 130mm x 20mm

ESL57426



Universal Indicator Paper PH 1-11

Range pH 1 to 11 in clear colour coded steps. Colour chart is on the side of the plastic dispenser. Box of 10 books with twenty strips. 5m of 6mm paper.

ESL57423

G Clamp

-	
ESL57427	"Drop forged. Length 250 mm
ESL57428	Drop forged. Length 200 mm
ESL57429	Drop forged. Length 150 mm
ESL57430	Drop forged. Length 125 mm
ESL57431	Drop forged. Length 100 mm
ESL57432	Drop forged. Length 75 mm
ESL57433	Drop forged. Length 50 mm





Weight Ring

Made of cast iron PVC coated ring for stabilizing Erlenmeyer flask immersed into water .

ESL57440 For flask sizes: 100 to 500 ML, Weight 0.22 KG ESL57441 For flask sizes: 250 to 1000 ML, Weight 0.45 KG

Tel: +44 (0)203 8685740





Lab Thermometer

Product Material: Glass tube with Kerosene filling (except * - special brown filling for high range), Product **Dimension**:s 6.5mm dia x length

ESL57544	White bkd blue spirit	Range: -10 to $$ 50 $^{\circ}$ C, Division: 0.5 C, Accuracy: $$ /-0.5 C @ 35 C
ESL57545	White bkd blue spirit	Range: -30 to $$ 120 $^{\circ}$ F, Division: 1.0 F , Accuracy: /-0.2 F @ 95F
ESL57546	White bkd blue spirit	Range: -35 to $$ 50 $^{\circ}$ C, Division: 1.0 C, Accuracy: $$ /-1.0 C $$ @ 35 C
ESL57547	White bkd blue spirit	Range: -20 to $$ 110 $^{\circ}$ C &F, Division: 1.0 C&F , Accuracy: /-1.0 C @ 35C
ESL57548	White bkd blue spirit	Range: -20 to $$ 150 $^{\circ}$ C&F, Division: 1.0 C&F, Accuracy: $$ /-1.0 C $^{\odot}$ 35 C
ESL57549	White bkd blue spirit	Range: 0 to 260 C&F, Division: 1.0 C&F, Accuracy: /-2.0 C @ 90 C
ESL57550	White bkd blue spirit	Range: 0 to 230 F, Division: 2.0 F, Accuracy: /-0.2 F @ 95 F
ESL57551	White bkd blue spirit	Range: -20 to 110 $^{\circ}$ C, Division: 1.0 C, Accuracy: /-1.0 C @ 35 C
ESL57552	White bkd blue spirit	Range: -20 to 110°C, Division: 0.5 C, Accuracy: /-1.0 C @ 35 C
ESL57553	White bkd blue spirit	Range: 0 to 300 F, Division: 2.0 F, Accuracy: /-0.2 F @ 95 F
ESL57554	White bkd blue spirit	Range: -20 to 150 C, Division: 1.0 C, Accuracy: /-1.0 C @ 35 C
ESL57555	White bkd blue spirit	Range: 0 to 500 F, Division: 2.0 F, Accuracy: /-0.2 F @ 95 F
ESL57556	White bkd blue spirit	Range: -10 to $$ 260 $^{\circ}$ C, Division: 1.0C, Accuracy: $$ /-2.0 C @ 90 C
ESL57557	White bkd blue spirit	Range: -10 to 210 $^{\circ}$ C, Division: 1.0 C, Accuracy: /-2.0 C @ 90 C
ESL57558	White bkd brown spirit	Range: -10 to 33° C, Division: 2.0 C, Accuracy: /-2.0 C @ 90 C
ESL57559	White bkd brown spirit	Range: -10 to 300 ° C, Division: 1.0 C, Accuracy: /-2.0 C @ 90 C 4
ESL57560	White bkd brown spirit	Range: -10 to 360 ° C, Division: 2.0 C, Accuracy: /-2.0 C @ 90 C
ESL57561	White bkd blue spirit	Range: -1 to 51° C, Division: 0.1 C, Accuracy: /-1.0 C @ 35 C
ESL57562	White bkd blue spirit	Range: -1 to $$ 51 $^{\circ}$ C, Division: 0.2 C, Accuracy: $$ /-1.0 C $$ @ 35 C
ESL57563	White bkd blue spirit	Range: -1 to 101 $^{\circ}$ C, Division: 0.2C, Accuracy: /-1.0 C @ 35 C



Lab Thermometer

Product Material: Glass Tube: Kerosene filled

These spirit filled thermometers use specially selected filling materials covering temperatures down to -200c. Normal fillings are coloured red on a white back glass but alternative colours are available as shown. The -200 ° C range thermometers are filled with a colourless liquid. Thermometers normally supplied with the non roll cap with ring.

ESL57564	White bkd red spirit , Length 200MM	Range: -10 to 60° C, Division: 1.0 C, Accuracy: /-1.5 C @ 35 C
ESL57565	White bkd red spirit , Length 250MM	Range: -10 to 150 ° C, Division: 1.0 C, Accuracy: $/-1.0$ C @ 35 C
ESL57566	White bkd red spirit , Length 305 MM	Range: -10 to 110 $^{\circ}$ C, Division: 1.0 C , Accuracy: /-1.0 C @ 35 C
ESL57567	White bkd blue spirit , Length 305MM	Range: -10 to 110 $^{\circ}$ C, Division: 1.0 C, Accuracy: /-1.0 C @ 35 C
ESL57568	White bkd red spirit , Length 305MM	Range: -10 to 150° C, Division: 1.0 C, Accuracy: /-1.0 C @ 35 C
ESL57569	White bkd blue spirit , Length 305MM	Range: -10 to 200° C, Division: 1.0 C, Accuracy: $/$ -2.0 C @ 90 C
ESL57570	White bkd red spirit , Length 305MM	Range: -10 to 110° C, Division: 1.0 C, Accuracy: /-1.0 C @ 35 C
ESL57571	White bkd red spirit , Length 305MM	Range: -10 to 110° C, Division: 0.5 C, Accuracy: /-2.0 C @ 90 C
ESL57572	White bkd red spirit , Length 205MM	Range: -10 to 150° C, Division: 1.0 C, Accuracy: /-2.0 C @ 35 C
ESL57573	White bkd red spirit , Length 205MM	Range: -10 to 110 ° C, Division: 1.0 C, Accuracy: /-1.5 C @ 35 C





Lab Thermometer

This entry level range is now available in a choice of red, green or blue spirit filling and have Tri-top, moulded glass non-roll device to help prevent breakage. These thermometers are printed with a clear, easy-to-read scale making them particularly suitable for student use. Dia 76 mm ,The initial TM Brand Thermometers are supplied as standard in protective PVC packaging in pack of 10 thermometers.

ESL57574	Red spirit , length 300 mm	Range: -10 to $$ 50 $^{\circ}$ C, Division: 0.5 C, Accuracy: $$ /-0.5 C $$ @ 35 C
ESL57575	Red spirit , length 200 mm	Range: -10 to 110 ° C, Division: 1.0 C, Accuracy: /-1.5 C @ 35 C
ESL57576	Red spirit , length 150 mm	Range: -10 to $$ 110 $^{\circ}$ C, Division: 1.0 C, Accuracy: /-2.0 C @ 35 C
ESL57577	Blue spirit, length 300 mm	Range: -10 to 50° C, Division: 0.5 C, Accuracy: /-0.5 C @ 35 C
ESL57578	Blue spirit, length 300 mm	Range: -10 to $$ 110° C, Division: 1.0 C, Accuracy: /-1.5 C @ 35 C
ESL57579	Blue spirit, length 300 mm	Range: -10 to 110 ° C, Division: 1.0 C, Accuracy: /-1.5 C @ 35 C
ESL57580	Blue spirit, length 200 mm	Range: -10 to $$ 110 $^{\circ}$ C, Division: C 1.0 C, Accuracy: /-1.5 C @ 35 C
ESL57581	Blue spirit, length 150 mm	Range: -10 to 110 ° C, Division: 1.0 C, Accuracy: /-2.0 C @ 35 C

Lab Thermometer

Product Material: Glass Tube

The EduScience break-safe range of laboratory thermometers are encapsulated in PVC to contain any glass or filling material in the event of breakage.

Immersion: 76mm

ESL57582	Filling : Blue LoTox	Range : -10 to $$ 50 $^{\circ}$ C, Division: 0.5 C, Length: 305mm, Accuracy: $$ /-0.5 C $$ @ 35 C
ESL57583	Filling : Blue LoTox	Range : -10 to $$ 50 $^{\circ}$ C, Division: 0.5, Length: 305mm, Accuracy: $$ /-0.5 C $$ @ 35 C
ESL57584	Filling : Blue LoTox	Range : -10 to $$ 110 $^{\circ}$ C, Division: 0.5, Length: 155mm, Accuracy: $$ /-1.0 C $$ @ 35 C
ESL57585	Filling : Blue LoTox	Range : -20 to 110 $^{\circ}$ C, Division: 1.0 C, Length: 305mm, Accuracy: /-1.0 C @ 35 C
ESL57586	Yellow Back with Red Spirit	Range : -20 to $$ 110 ° C, Division: 1.0 C, Length: 305mm, Accuracy: /-1.0 C @ 35 C

Lab Thermometer Investigation Science Kit



Blue plastic case enclosing a variety of instruments and a set of investigative science notes.

- 4x150mm initial brand green filled thermometers
- 4x 200mm initial brand green filled thermometers
- 2 x small classroom thermometers
- 1 x dial type maximum/minimum thermometer
- 1 x soil temperature thermometer
- 1 x "Spot-check" clinical thermometer

Boxed Dimensions: 334 x 232 x 50mm

ESL57588



Hygrometer Masons

Simple form of psychrometer

Easy to measure the amount of water vapour

Measures difference between wet & dry temperature - Supplied complete with chart and instructions to determine %RH

Case: Polypropylene Scale: Polystyrene Reservoir: Polyethylene

Glass Tube: Kerosene filled



ESE53838

Whirling Hygrometer

with folding handle

Uses the 'wet' and 'dry' principle to measure Relative Humidity (%RH)

Hygrometer designed to be rotated by hand

Environmentally friendly, blue spirit filled thermometer Tubes Comes with protective pouch, calculator chart and 2pcs replacement wicks

Temperature range: -5 to +50°C Accuracy: +/-1°C Divisions: 0.5°C

ESE53840

Lab Thermometer Kit For Classroom

Blue plastic tray which fits into standard classroom storage systems. Includes a variety of laboratory thermometers and a set of classroom notes.

8 x 150mm initial brand green filled thermometers 7 x 300mm initial brand green filled thermometers 1 x 300mm un calibrated green filled thermometer

Boxed Dimensions: 334 x 232 x 50mm



ESL57587



Lab Thermometer Classroom Wall Kit With Chart

Colourful 380mm plastic wall thermometer and chart for recording temperatures. **Boxed Dimensions:** 365 x 287 x 10mm

ESL57589

Hygrometer Hair Type

For measuring of relative humidity in air 0-100 x 1% r.h. in plastic case.

ESL57590



(B)

Hygrometer Thermo Hygrometer

For measuring of relative humidity and temperature both in room and air. Range -10 to 50 °C for thermometer and 0 to 100% for Hygrometer in plastic case.

ESL57591

Thermometer Dial

For measuring temperature range -10 to 50 $^{\circ}$ C in plastic case.

Tel: +44 (0)203 8685740





Wall Thermometer

Sustainable wood wall thermometers sourced from forests managed to strict environmental, social and economic

Temperature range: -20 to +50°C/-10 to +120°F Divisions: 1°C/2°F - Accuracy: +/- 1.0°C @ 10°C

Product material: Wooden mounting with kerosene filled

alass tube

Dimensions: 150 x 35 x 8mm - Weight: 29.5g

ESE53863



Wall Room Thermometer Plastic

Plastic wall thermometer with clear, black printed scale on white moulding. Suitable for indoor and outdoor use, this thermometer is ideal for use in the home or garden.

Ideal for customer's own branding - click enquire now to submit a request

Suitable for indoor and outdoor use

Range: -20 to +50°C&F

ESE53860

Ecology and weather kit - Standard Kit

Selection of weather watcher equipment

· Complete with weather register to record measurements



· Supplied in robust carry case with full operating instructions

Contents: · Mason's hygrometer · Gilt dial barometer

- · Digital max min thermometer · 150mm wood wall thermometer
- · Rainfall sprinkler measure · Weather register

Weight: 954g (including 505g case) Dimensions: 320mm x 280mm x 119mm

ESE53833



Thermometer Digital

K Type Thermometer DM6801A+ Features New type holster, anti-drop design Large LCD for easy reading Strong anti-magnetic and antiinterference performance Data hold function High resolution 0.1°C /°F High accuracy 0.2% Specifications Basic function Range Accuracy Temperature -50° C $\sim 199.9^{\circ}$ C $(0.2\%+1) -50^{\circ}$ C $\sim 1000^{\circ}$ C $(0.3\%+2) 1000^{\circ}$ C \sim 1300°C (0.5%+2) -50°F ~ 199.9°F (0.3%+2) -50°F ~ 1999°F(0.5%+2) -50°C ~ 199.9°C(0.2%+1) Special Function Low battery indication Approx. 7.5V Data hold Unit symbol display Function protection Anti-shock protection Input impedance 10MΩ Sampling rate 3 times/s Max. display 1999 LCD size 67x41mm Battery 9V 6F22 Power dissipation Quiescent current approx. 3.5mA General Information Meter color Body: dark grey Holster: Orange Meter weight 250g (including battery) Meter size 130x95x28mm Standard accessory Battery x1, manual x1, K type thermocouple x1

ESL57592

Soil Thermometer

This type of soil thermometer is frequently used in the agriculture and horticulture industries to check temperatures of soil and compost. The soil thermometer has a green knob at the top to assist with the location of the thermometer after placement. 210mm thermometer to check temperature of soil and compost Green knob at top of aluminum case to assist with location For use in agriculture and horticulture industries

ESE53870



Rain Gauge Plastic

100mm diameter rain gauge - Measuring in inches & mm Rainfall capacity up to 400ml - Supplied with rainfall charts -Replacements available

Range: 0 to 50mm / 0 to 2in Divisions: 0.5mm / 0.05in Product Material: Crystal Styrene

ESE53836

Thermometer Digital Basic with probe -50 to +150°C/°F

Stainless steel probe thermometer Protective case and pocket clip- Battery and full instructions included Temperature range: -50 to +150°C/°F

Ambient temperature: -10 to +50°C/°FAccuracy: -50 to -21°C: +/-4°C-20 to -1°C: +/-2°C0 to 100°C: +/-1°C101 to 150°C: +/-2°CResolution: 0.1°CSampling rate: 1 second; Battery: LR44 x 1 pc Average battery life: Approx 1500 hours CE/ROHS/ WEEE: Compliant

Hazard information (SDS): See brannan.co.uk for information LCD dimensions: 18mm x 8mmProbe dimensions: 125mm x ø3.75mmProduct dimensions: Net: 195mm x 21mm x 21mmGross: 230mm x 25mm x 25mmProduct weight: Net: 21g (including battery)Display box: 10.5gGross: 31.5g

ESL57620B



Thermometer Digital Water resistant with Probe -40 to +200°C/°F

Stainless steel probe thermometer. Protective case and pocket clip. Water resistant to IP65. Battery and full instructions included Product specifications:

Temperature range: -40 to +200°C/°F Accuracy: -40 to -1°C: +/-2°C, 0 to 100°C: +/-1°C,101 to 150°C: +/-2°C, 151 to 200°C: +/-3°CResolution: 0.1°CIngress protection: IP65Battery: LR754 x 1 pc Average battery life: Approx. 1500 hours CE/ ROHS/WEEE: Compliant Hazard information (SDS): See brannan.co.uk for information LCD dimensions: 18mm x 8mmProbe dimensions: 120mm x ø3.5mmProduct dimensions: Net: 200mm x 20mm x 15mmGross: 205mm x 26mm x 25mmProduct weight: Net: 20.5qDisplay box: 10.5gGross: 31gmperature range -50°C ~ 300°C / -58°F

~ 572°F Accuracy -50°C ~ 300°C: \pm 1°C / \pm 2°F; Other range: 2°C / \pm 2°F Resolution 0.1° Measuring speed 0.8s Power source 1.5V AAA battery" (including battery)Display box: 10.5gGross: 31.5g

ESL57620WR

Thermometer - Digital Hand Held with Probe

Temperature range -50°C ~ 300 °C / -58°F ~ 572 °F Accuracy -50°C ~ 300°C: \pm 1°C / \pm 2°F; Other range: 2°C / ±2°F Resolution 0.1° Measuring speed 0.8s Power source 1.5V AAA battery





Max Min Thermometer Digital Classic Design

Large digital Max Min thermometer in a classic design with roof for indoor or outdoor use, this Max Min thermometer shows current temperatures and also maximum and minimum temperatures reached



since the previous reset. A reliable digital Max Min thermometer complete with batteries included.

Product Specifications:

Temperature Range: -20 to 50 ° C&F

Accuracy: /-1 ° C IP Rating: IP 65 Battery: 1 x AAA

CE ,RoHS/WEE E: Compliant

LCD Dimensions : 16 x 52mm (current

temperature display)

Product Dimensions : 203 x 100 x 30mm

(when roof in horizontal position) **Product Weight:** 135g

FSI 57594

Max Min Digital Heavy Duty , Green

Large Digital Max Min Thermometer

Suitable for outdoor and indoor use in a green casing. Triple display shows minimum, maximum and current temperature simultaneously. This digital Max Min thermometer can be easily switched from C to F by a push button and it is also easy to reset the Max Min temperature.

Temperature Range: -10 to 40 ° C&F

Display Resolution: 0.11C

Accuracy: /-1C

Sampling Rate: Every 10 seconds

Water Resistant : To IP65
Battery usage : 1 x AA (Included)
CE , ROHS/WEEE: Approved.



Max Min Thermometer Digital Waterproof Boxed Grey

Outdoor Digital Max Min Thermometer Outdoor digital Max Min thermometer in a grey and white case with a large splash-proof display for outdoor and indoor use.

Product Specifications:

Temperature Range: -40 to 70 ° C&F

Divisions: 0.1 ° C Accuracy: /-1. ° C

Battery: 1.5 volt (AAA) or equivalent (Included)

CE,ROHS/WEEE : Approved



ESL57599

Max Min Thermometer Dial (Bimetallic)

Max Min Thermometer Digital Mini Lidded

Digital Max Min thermometer in white case with roof. Suitable for outdoor or indoor use. This Max Min thermometer features a triple display



which simultaneously shows minimum, maximum and the current temperature. Easy push button to reset the Max and Min temperatures and also comes complete with batteries included.

Product Specifications:

Temperature Range: -10 to 50 ° C&F

Display Resolution: 0.1C

Accuracy: /-2°C

Sampling Rate: Every 10 seconds

Water Resistant : To IP65

Battery usage: 1 x AAA (Included)

CE ROHS/WEEE: Approved

ESL57595

Max Min Thermometer Digital Heavy Duty, White

Large Max Min Digital Thermometer

Suitable for outdoor and indoor use in a white casing. Triple display shows minimum, maximum and current temperature simultaneously.

Temperature Range: -10 to 40 ° C&F

Display Resolution : 0.11 ° C

Accuracy: /-1°C

Sampling Rate: Every 10 seconds

Water Resistant : To IP65 Battery usage : 1 x AA (Included)

CE, ROHS/WEEE: Approved.

ESL57596

Max Min Thermo&Hygrometer Electronic Jumbo

Jumbo Digital Max Min Thermometer & Hygrometer

Jumbo digital Max Min thermometer featuring large displays for indoor temperature and humidity or outdoor temperature. Complete with 2 metre cable for the outdoor probe.

Product Specifications:

Temperature Range: Indoor: -10 to $\,^{\circ}$ C&F / Outdoor: -50 to $\,^{\circ}$ C&F Humidity Range: 20 to $\,^{\circ}$ 99% RH (when humidity $\,^{\circ}$ 20%, display $\,^{\circ}$ 10%RH directly)

Divisions: 0.1 ° C Accuracy: /-1 ° C

Battery: 1.5 volt (AAA) or equivalent x 1

piece (Included)

CE, ROHS/WEEE: Approved



ESL57598

Bimetallic Max Min Thermometer

This Bimetallic Max Min Thermometer traditional design is activated by a bi-metal temperature sensing element. The Max Min Thermometer is reset by turning the button in the centre of the dial. A simple instrument to record the highest and lowest temperatures day and night.

Product Specifications:

Thermometer Range : -20 to 50 ° C&F Humidity Range : 0 to 100%RH

Thermometer Accuracy : /- 1 $^\circ$ C between 0 and 30C, otherwise /- 2 $^\circ$ C Humidity Accuracy : /- 5%RH between 40 and 80%RH, otherwise /- 9%RH







Max-Min Thermometer Electronic

Digital Max Min Indoor Outdoor Thermometer

Digital Max Min indoor outdoor thermometer with white moulded case and two displays for outdoor and indoor temperature, each display has a maximum and minimum recording facility and can be displayed in °C or °F. This Max/Min thermometer comes complete with stand and 2.5m cable for the outdoor stainless steel probe and batteries are included. Temperature Range: Indoor: 0 to 50 °C&F / Outdoor: -50 to 70°C&F

Divisions: 0.1 ° C

Accuracy : /-2 $^{\circ}$ C between -20 and 0?C /-1 $^{\circ}$ C between 0 and 50 $^{\circ}$ C /-2 $^{\circ}$

C between 50 $^{\circ}$ and 70 $^{\circ}$ C otherwise /-3 $^{\circ}$ C

Sampling Rate: 10 second

Battery: 1.5 volt (AAA) or equivalent x 2 pieces (Included)

CE,ROHS/WEEE: Approved

ESL57601



Max Min Thermometer White Quick-Set

Quick Set Max Min thermometer

The Quick Set Max Min thermometers are a popular design in a white casing and blue printed temperature with a push button reset C and F.

Product Specifications:

Nominal Range : -35 to $50 \,^{\circ}$ C&F

Accuracy: /- 2.0 ° C

Tolerance between limbs: /- 1.5 ° C

ESL57603



Max Min Thermometer Lidded Green Push Button

Euro Lid Max Min Thermometer

The Euro lidded Max Min thermometer has a modern design with a green scale on a white back in a moulded green plastic case and features a push button reset. A popular greenhouse Max Min thermometer which is used around the world.

Product Specifications:

Nominal Range: -35 to 50°C&F

Accuracy: /- 2.0°C

Tolerance between limbs: /- 1.5°C

ESL57602



Max Min Thermometer White Magnet Re-Set

The Magnet Reset Max Min Thermometer has a modern design with blue coloured scale in moulded white plastic complete with resetting magnet. These Max Min thermometers use a patented blue coloured liquid to replace the mercury but retain the ease of operation of the mercury instruments.

°C &° F.

Product Specifications:

Nominal Range: -35 to 50 ° C&F

Accuracy : /- 2.0 $^{\circ}$ C

Tolerance between limbs: /- 1.5 ° C

ESL57604



Max Min Thermometer Heavy Duty , Green

Heavy Duty Max Min Thermometer

A classic Max Min thermometer design that has long been popular. This heavy duty Max Min thermometer has a clear and easy to read black temperature scale and is simple to reset with a push button.

C and F.

Product Specifications:

Nominal Range : -40 to 50 ° C&F

Accuracy: /- 2.0 ° C

Tolerance between limbs: /- 1.5 ° C

ESL57605



Max Min Thermometer cream Ouick-set

Quick Set Max Min thermometer

The Quick Set Max Min thermometers have a popular design and come in a cream moulding with black printed temperature scale. Our low cost Max Min thermometer model ideal for the greenhouse which has a push button resetting device.

C and F.

Product Specifications:

Nominal Range: -35 to 50 ° C&F

Accuracy : /- 2.0 ° C

Tolerance between limb s: /- 1.5 $^{\circ}$ C





Thermometer Infrared Hand Held

Product Features

Built-in laser pointer Over range indication Large backlit LCD Data hold and power off function

Product Specifications

Optical Resolution (D:S): 13:1 Emissivity: Fixed at 0.95 Response Time: <500ms

Response Wavelength: 8 to 14mm Basic Accuracy: /-2%, /-2°C / 4°F

Resolution: 0.1°C/°F

Operating Conditions: 0 to 50°C <95%RH (non-condensing)

Storage Conditions: -20 to 70°C <80%RH

Diode Laser: Output <1mW, Wavelength 630 to 670, class II

Battery: 1 x 9V (included)
CE & RoHS/WEEE: Compliant

Product Dimensions: Packaged: 228 x 133 x 60mm

Unpackaged: 155.5 x 98.8 x 27.5mm **LCD Dimensions :** 26.5 x 25.6mm

-50 to 550°C (-58 to 1022°F) - 38/702/0

-50 to 350°C (-58 to 662°F) - 38/701/0 **ESL57613**

Thermometer Infrared Compact Hand Held

Product Features

Built-in laser pointer Over range indication Large backlit LCD Data hold and power off function

Product Specifications:

Optical Resolution (D:S): 12:1 Emissivity: Fixed at 0.95 Response Time: <500ms Response Wavelength: 8 to 14m

Basic Accuracy: /-2%, /-2 C / 4 F

Resolution: 0.1 C/°F

Operating Conditions: 0 to 50 C < 95%RH (non-condensing)

Storage Conditions: -20 to 70 C <80%RH

Diode Laser: Output <1mW, Wavelength 630 to 670, class II

Battery: 1 x 9V (included)
CE RoHS / WEEE: Compliant
LCD Dimensions: 24.5 x 25mm

Product Dimensions: Packaged: 228 x 133 x 60mm

Unpackaged: 134 x 89 x 36mm



Thermometer Infrared Dual Laser

Product Features

Precise IR and K-Type input temperature measurement
Built-in dual laser pointers REC datalogger function for 12 points

Adjustable emissivity: 0.1 to 1.0 °/°F selectable MAX/MIN/DIF/AVG record Large backlit LCD Trigger lock Adjustable High/Low alarm

Automatic range selection, data hold and power off function

Supplied in protective bag

Product Specifications

Optical Resolution (D:S): 13:1 Response Time: <250ms Response Wavelength: 8 to 14m IR Basic Accuracy: -50 to 0°/°F: /- 4°/7°F

0 to 500°/°F: /-1.5% /-2°/3.6°F Above 500°/°F: /-2% /-2°/3.6°F

K-Type Basic Accuracy: -50 to 1370°/°F: /- 1.5% /-1°/1.8°F

Emissivity: Adjustable 0.1 to 1.0

Resolution: 0.1°/°F

ESL57612

Operating Conditions: 0 to 50° <95%RH (non-condensing)

Storage Conditions: -20 to 70° <80%RH Memory: Storage of 12 readings Response Time: 1 second Battery: 1 x 9V (included)

CE & RoHS/WEEE: Compliant **LCD Dimensions**: 35 x 35mm

Product Dimensions: Packaged: 250 x 125 x 65mm

Unpackaged: 192 x 97 x 59mm

-50 to 1370°C (-58 to 2498°F)

-50 to 1050° (-58 to 1922°F) **ESL57611**





Thermometer Infrared Body Tempreture

Body Temperature Thermometer

Non-contact and hygenic infrared body temperature thermometer specially designed to take the body temperature of a person regardless of room temperature. The body temperature thermometer has a fast response time allowing a greater number of measurements to be taken in a short time. Designed to eliminate the chance of cross-contamination, it is ideally suited for use in schools, business and other environments where a large number of people are coming into contact with one another.

Features

Easy and safe
Selectable C or F
Set alarm value
Selectable body or surface temperature
Memorization of the last 32 measurements
Supplied with battery, full instructions and protective bag
Laser targeting
Trigger lock
Automatic data hold
Backlit LCD display

Products Specifications

Measuring Range: In Body Mode: 32 to 42.5C (90 to $108^{\circ}F$) - In Surface Temp Mode: 0 to 60 C (32 to 140 F) Operating Temp: 10 to $40^{\circ}C$ (50 to $104^{\circ}F$)

Storage Temp: 0 to 50°C (32 to 122°F) Accuracy: /-0.3°C (or 0.54°F)

Response Time: 0.5 second Relative Humidity: <85% Emissivity: 0.95 fixed value Measuring Distance: 5 - 15cm Resolution: 0.1°C (0.1°F) Battery: 2 x AA (Supplied)

ESL57614



Thermometer Infrared Forehead

Infrared Forehead Thermometer

Ease of Use

Taking measurements of forehead temperature is quick, simple and non intrusive with this infrared forehead thermometer.

Can measure both forehead temperature and the surface temperature of object.

Measurements can be taken while the patient is asleep.

Stores up to 20 readings in the internal memory which helps track changes in the temperature of the patient.

Device will warn user if the temperature of the patient is too high or too low by way of a fever alarm.

Safe and Hygenic

Non contact measurements avoid the accumulation of bacteria, and reduce the need for cleaning and sterilisation of the forehead thermometer during normal use.

No danger from broken glass or swallowing the thermometer filling liquid (mercury or spirit).

Robust ergonomic design manufactured from tough engineering plastics.

More comfortable and convenient than anal and oral reading thermometers, especially for children.

Energy Efficient

The forehead thermometer will automatically switch off after 10 seconds of inactivity.

Details

Forehead Thermometer Temp. Mode: 32 to 42.2°C (89.6 to 108°F)

Milk Temp. Mode: 0 to 100° C (32 to 212° F)

Products Specifications

Temperature Measurement Range:

Forehead Temp. Mode: 32 to 42.2° C (89.6 to 108° F)

Milk Temp. Mode: 0 to 100° C (32 to 212° F)

Accuracy: /-0.2°C (/-0.4°F) Response Time: 1 second

Battery: 2 x AAA (battery life approx 1000 operations)

CE, ROHS/WEEE: Approved **Product Weight:** 119g

Product Dimensions: 143mm x 60mm x 50mm





Thermometer Infrared Ear Thermometer

Infrared Digital Ear Thermometer

A quick and easy infrared ear thermometer suitable for all ages. The infrared ear thermometer with digital display and memory comes complete with protective bag and 20 X replacement probe covers. Especially suited with use with babies, young children and the elderly. Pack of 20 replacement probe covers also available.

Product Specifications:

Measuring Temperature Range: 35.5 to 42°C°F Displayed Temperature Range: 34 to 44°C°F

Operating Temperature Range: 16 to 35°C (60.8 to 95.0°F)

Operating Relative Humidity: 80%RH

Divisions: 0.1°C°F

Accuracy: /-0.2°C Between 35 and 42°C (/-0.4°F between 95.9 and 107.6°F)
Battery: 2 x AAA (Supplied)
LCD **Dimensions:** 10mm x 20mm

Product Dimensions: 140mm x 70mm x 40mm

ESL57616



Clinical Thermometer Digital Flexi-Head

Easy to use digital flexi-head thermometer suitable for all ages especially babies, young children and the elderly. This model is the waterproof flexible probe model, suitable for oral use. Packaged in a clear plastic case with full instructions

Product Specifications:

Temperature Range: 32 to 42°C

Divisions: 0.1°C

Accuracy: /-0.1°C Between 35.5°C and 42°C, otherwise /-0.2°C

Response Time:* Rectal: Approx 9 - 11 seconds

Axillary: Approx 23 - 29 seconds

Oral: 15 - 19 seconds

Battery: LR41 or equivalent x 1 piece (Included)

ESL57621



Thermometer Digital Probe With Timer

Digital hand-held test thermometer with alarm function, twin displays, 1m cable and 235mm stainless steel probe. Featuring data hold and Max Min function. Includes battery, and hanger, stand and magnetic fixtures.

Product Features:

Dual display for temperature and timer, Programmable high/low alarm, Wide measurement range, Maximum/Minimum temperature memory, Celsius and Fahrenheit interchangeable, Data hold function, 99 hour countdown timer, Timer setting memory

Timer elapse time display, Stainless steel probe, Wall mount keyhole, Magnetic attachment, Flip out desk stand

ESL57617



Thermometer Digital Oral

Easy to use digital oral thermometer suitable for all ages especially babies, young children and the elderly. This oral thermometer is the standard rigid probe model, suitable for oral use. Packaged in a clear plastic case with full instructions and battery included.

Product Specifications:

Temperature Range: 32 to 42°C

Ambient Temperature during use: 5 to 35°C (80% RH)

Storage Temperature: -25 to 55°C (95% RH)

Divisions: 0.1°C

Accuracy: /-0.1°C between 35.5 and 42°C, otherwise /-0.2°C

Battery: LR41 or equivalent x 1 piece (Included)





Balance Triple Beam

Single top pan, low form, suspension. Three graduated beams with notches for positioning sliding masses. Spring loaded zero adjust and magnetic damping gives stability and accuracy. Weighing capacity 610g with accuracy of 0.1g, expandable to 2610g with the use of supplementary masses.

Stainless Steel Pan, 150mm Diameter Supplementary Masses: 2 x 1000g 1 x 500g.

Three notched Weighing Beams: 10g x 0.1g, 100g x 10g, 500g x 100g

ESL57630



Balance Four Beam Balance 310g

The maximum capacity is 311 grams and the readability is 0.01q.lt is made of a high quality aluminum alloy, the knife is made of a high quality alloy and the bearing plane is of agate, with a stainless steel weighting pan and includes a built in platform to aid density determination by weighting samples in air and in water. It is widely used for schools and educational establishments, etc QUADRUPLE BEAM BALANCE Capacity: 311gFront beam: 1×0.01gSecond beam: 10x1gThird beam: 100x10gLast beam: 200x100g

ESL57631



Balance , Physics Balance 2 Pan, Hydrostatic

Hydrostatic Balance is useful for specific gravity experiments. Similar to analytical balance without any casing, but with one additional pan suspended through smaller frame. This pan has a hook underneath for suspending items in specific gravity experiments. Balance has detachable pans and is mounted on wellpolished wooden base. Capacity 250g Sensitivity 5mg.

ESL57626



Bathroom Scale Mechanical

Bath room scale mechanical measuring range 0 - 180 kg

ESL57692

Bathroom Scale Digital

Bath room scale digital measuring range 0 -180 kg

ESL57694

www.eduscienceuk.com





Balance Table Top 2 Pan, Roberval, 2 Kg

Simple model, suitable for teaching, made of steel plate and pans are of metal. 2 kg

ESL57627



Double Beam Balance

Utilizing a two-pan configuration rooted in the traditional Roberval balance concept, this equipment is frequently employed for comparative weighing purposes. It boasts a capacity of 2000 grams and features a platform measuring 15cm in size. Additionally, it comes equipped with individual weights of 100g, 200g, 500g, and 1000g

ESL57629



Balance 2 Pan, Plastic

Designed specially for small students use. Made from not-toxic high quality plastic, with no sharp corners. The total balance comprises of only 6 components, which can be easily assembled and disassembled. Both of the weighing containers are of different colours and bucket shaped for use with either of liquids or solids and are washable. Since the buckets are pivoted, the objects can be placed even on the edge without affecting the accuracy of measurement. Includes a broad tipresistant base sliding poise for easy zeroing and check rod for support of Capacity 2kg Readability 1g.







Spring Balance

Newton Meters, robust plastic transparent body, overall length 285mm approx. with upper and lower suspension hooks, with zero adjustment, scales are both in grams and Newtons.

ESP60047 Measuring: 100gm/1n, 1gm
ESP60048 Measuring: 250gm/2.5N, 5gm
ESP60049 Measuring: 500gm/5n, 10gm
ESP6005 Measuring: 1kg/10n, 20gm
ESP60051 Measuring: 2kg/20n, 40gm
ESP60052 Measuring: 3kg/30n, 60gm
ESP60053 Measuring: 5kg/50n, 100gm



Spring Balance

PRECISION DYNAMOMETER, The Precision Dynamometer is available in range of weight capacities and scales. They are incredible precise and are suitable for measuring weights, masses and forces. Each different weight capacity is colour coded for ease of identification. As well as offering a high level of precision, these dynamometer are also easy to read enabling accurate readings to be taken quickly and precisely.

ESP60060	Measuring: 100gm/1n, 2gm
ESP60061	Measuring: 250gm/2.5N, 5gm
ESP60062	Measuring: 500gm/5n,10gm
ESP60063	Measuring: 1kg/10n, 20gm
ESP60064	Measuring: 2kg/20n, 40gm
ESP60065	Measuring: 3kg/30n, 60gm
ESP60066	Measuring: 5kg/50n, 100gm



Spring Balance

force meter, Balance designed to work for mass and force activity. Dual calibrated in grams and Newtons.

ESP60054 Measuring: 250gm/2.5N, 5gm
ESP60055 Measuring: 500gm/5n, 10gm
ESP60056 Measuring: 1kg/10n, 20gm
ESP60057 Measuring: 2kg/20n, 40gm
ESP60058 Measuring: 3kg/30n, 60gm
ESP60059 Measuring: 5kg/50n, 100gm



Weiging Boats

Plastic weighing boats/trays pack of 50 30ml capacity DIAMOND SHAPE





Spring Balance

balance spring pocket size, moulded in plastic, reading scale on both sides.

ESL57634 Measuring: 1.5 Kg, 25gm
ESL57634 Measuring: 3 kg, 50gm
ESL57635 Measuring: 6 kg, 100gm
ESL57636 Measuring: 10 kg, 250gm



Balance Digital-600G/0.01G

Xllogger Digital Balance - 600g/0.01g

A superb digital balance for a competitive price. The XLE1054 offers multiple unit conversions, RS232 interface, parts counting, percentage weighing and dynamic weighing.

The unit has two backlit digital displays, one as seen above and a second at the rear so that the whole class may see the results displayed.

The XLE1054 may also be used to supplement the Xllogger data logging system. The Xllogger interface may be connected directly to the USB



port of a computer running Excel and data is automatically imported and may be processed in a multitude of ways.

The balance comes complete with low voltage power adapter (It also operates on 6 x AA cells), wind shield, 500.00g calibration weight and full user instructions.





Balance Digital Basic

High precision load cell. Rugged Plastic Housing. Big size Stainless Steel Platter. High contrast easy to read LCD display. Built-in rechargeable battery. Height adjustable feet. Full capacity subtraction. Stabilization time 1.5 seconds. Overload Protection.

Below Balance Weighing Facility. Checking Weighing, piece counting function. Can be contain bubble level. Pan size: 143 X 192mm

ESL57664 Capacity: 500 G, Readability: 0.1 G
ESL57665 Capacity: 1000 G, Readability: 0.1 G
ESL57666 Capacity: 2000 G, Readability: 0.1 G
ESL57668 Capacity: 5000 G, Readability: 0.1 G



Balance Digital Precession

High precision load-cell, compact design. Full plastic housing. Stainless steel Platter. Super bright LCD display with back-light. Mains adapter supplied as standard. Height adjustable feet. Full Capacity subtraction. Simple 5 key panel for easy operation. Stabilization time 1.5 seconds. Overload Protection. Below Balance Weighing Facility. Selectable measure units, g,oz,ct. Checking Weighing, Piece counting function. CE approvals

ESL57674	Capacity: 300 G, Readability: 0.1 G
ESL57675	Capacity: 600 G, Readability: 0.1 G
ESL57676	Capacity: 1000 G, Readability: 0.1 G
ESL57677	Capacity: 2000 G, Readability: 0.1 G
ESL57678	Capacity: 200 G, Readability: 0.01 G
ESL57679	Capacity: 600 G, Readability: 0.01 G
ESL57680	Capacity: 1000 G, Readability: 0.01 G
ESL57681	Capacity: 2000 G, Readability: 0.01 G



Balance Digital Basic

High precision load cell. Rugged Plastic Housing. Big size Stainless Steel Platter. High contrast easy to read LCD display. Built-in rechargeable battery. Height adjustable feet. Full capacity subtraction. Stabilization time 1.5 seconds. Overload Protection.

Below Balance Weighing Facility. Checking Weighing, piece counting function. Can be contain bubble level. Pan size: 128 X 157mm

ESL57669 Capacity: 300 G , Readability: 0.01 G
ESL57670 Capacity: 600 G , Readability: 0.01 G
ESL57671 Capacity: 1000 G , Readability: 0.01 G
ESL57672 Capacity: 2000 G , Readability: 0.01 G



Balance Digital Analytical

Electromagnetic Force Compensation Technology. Aluminium Alloy die cast base and ss platter. Super Bright LCD display with back-light. RS232C Interface Clear Glass Windshield as standard. Over load protection, Bubble Level Adjustment, Under hook

Full capacity Subtraction Multi Weighing unit conversation g/mg/ct/oz. Check Weighing, Parts counting, percentage weighing

Universal power adaptor supplied as standard Certificated calibration weight supplied as standard. Internal calibration system CE approval

ESL57683	Capacity: 300 G, Readability: 1 Mg
ESL57684	Capacity: 600 G, Readability: 1 Mg
ESL57685	Capacity: 1000 G, Readability: 1 Mg
ESL57686	Capacity: 220 G, Readability: 0.1 Mg
ESL57687	Capacity: 310 G, Readability: 0.1 Mg





Economy Digital Balance 500 x 0.01g

Easy to use with 4 buttons. Fast operation thanks to quick self-calibration after switching on. Tare and reset function. Switch between grams, ounces, grains (measure of weight) and carats. Unit counter function. Automatic shutdown. Easy-to-read display with backlight, digit size: 10 mm. Works with batteries (2 x AAA) Contains two transparent measuring cups (can also be used as a protective cover). Specifications: Measuring plate: 100 x 100 mm

ESL57662

Demo Balance Support

The sturdy notched support is available for use the lab. materials you already have to complete the apparatus. You will need a meter stick, mass hangers and masses and several knife edge clamps, available separately. Support is 18.5 cm in height and weight is 280 g approx.

ESP60077

Comprising 1 x 200gm,2 x 100gm, 1 x 50gm, 1 x 20gm, 2 x 10gm,





Balance Weight Physical

ESP600	079 Capacity 500Gm	1 x 5gm, 2 x 2gm, 1 x 1gm.Polished Brass, supplied with Wooden block, as illustrated.
ESP600	080 Capacity 1000Gm	Comprising 1 x 500gm, 1 x 200gm, 2 x 100gm, 1 x 50gm, 1 x 20gm, 2 x 10gm, 1 x 5gm, 2 x 2gm, 1 x 1gm.Polished Brass, supplied with Wooden block, as illustrated.
ESP600	081 Capacity 2000Gm	Comprising 1 x 1000gm, 1 x 500gm, 1 x 200gm, 2 x 100gm, 1 x 50gm, 1 x 20gm, 2 x 10gm, 1 x 5gm, 2 x 2gm, 1 x 1gm. Polished Brass, supplied with Wooden block, as illustrated.

Weight Set Hooked Weight



Brass with hooks on both sides. Recessed bottoms to enable the weights to be hooked together. The bottom is flat when placed on a flat surface. Set of 9 weights. 10 - 1000g in wooden block.

ESP60082

Weight Set Primary Weight

These weights are polished and lacquered Brass weight sets fitted in a durable hardwood storage box as illustrated. 1 each of 1gm, 5gm, 20gm, 100gm and two each of 2gm and 10gm





Slotted Masses And Hanger

Slotted Masses and Hanger , EduScience Nickel plated Brass ,mass in disc shape Material: EduScience Plated Brass Consists of: $1 \times Masses hanger - 9 \times Slotted Load$

ESP60085	Total Weight 100 GR	9 x 10 g + hanger
ESP60086	Total Weight 200 GR	9 x 20 g + hanger
ESP60087	Total Weight 500 GR	9 x 50 g + hanger
ESP60088	Total Weight 1000 GR	9 x 100 g + hanger
ESP60085B	Total Weight 100 GR	9 x 10 g + hanger
ESP60086B	Total Weight 200 GR	9 x 20 g + hanger
ESP60087B	Total Weight 500 GR	9 x 50 g + hanger
ESP60088B	Total Weight 1000 GR	9 x 100 g + hanger



Slotted Masses And Hanger 12 pc 200 GR BRASS

Slotted Masses and Hanger , EduScience Brass ,mass in disc shape Material: EduScience Brass Consists of: 5g to 20g Mixed Masses and Hanger

5g to 20g Mixed Masses and Hanger Set of 12 brass nicked plated slotted masses with hanger 50g hanger, nine masses of 20g, one of 10g and two of 5g.

Tel: +44 (0)203 8685740

ESP60086B12



Weight Slotted Masses And Hanger,

Slotted set of masses and hanger. Set of 9 slotted masses, one hanger $\,$

This improved set comprises masses of Brass with slots, brass hangers with hook. The design of the slots ensures that the masses may be easily removed and replaced but will not fall of accidentally.

·			
ESP60089	Total 100gm	Set of 9 slotted masses, one hanger each of 10gm.	
ESP60090	Total 250gm	Set of 9 slotted masses, one hanger each of 25gm.	
ESP60091	Total 1000gm	Set of 9 slotted masses, one hanger each of 100gm	
ESP60092	Total 250gm	Set of 4 slotted masses, one hanger each of 50gm	
ESP60093	Total 100gm	Set of one hanger 20gm, three slotted masses 20g one mass 10gm and two masses 5gm	
ESP60094	Total 250gm.	Set of one hanger 50gm, nine slotted masses 20gm, one mass of 10gm and two masses of 5gm	





United Kingdom



Weight Hooked Masses

Hooked masses cylindrical.Chromium plated with cylindrical weight with long hook. Loose or in wooden box.

ESP60095 10gm each weight
ESP60096 20gm each weight
ESP60097 50gm each weight
ESP60098 100gm each weight
ESP60099 500gm each weight
ESP60100 1000gm each weight
ESP60101 200gm each weight





Weight Masses Hexagonal With Lifting Ring

Hexagonal with lifting ring. Within international tolerance. Set of 6 (50gm, 100gm, 200gm, 500gm, 1kg 2kg)

ESP60103



Weights Hooked Flat

Weights, Brass, with hooks on both sides. Set of 9 Pcs ,Capacity 500 gm ,comprises of 1 x 200gm, 2 x 100gm, 1 x 50gm, 1 x 20gm, 2 x 10gm and $2 \times 5 gm$

ESP60106

Melting Point Apparatus Digital

Melting point apparatus, 1°C resolution, with pack of 100 melting point tubes, closed at one end, 240V ,Digital Selection and Display of Temperature

High Accuracy

Easy to Operate with Plateau Facility

Number of Samples : 2

Temperature Range: Ambient to 300°C (572°F)

Temperature Accuracy : $\pm 1.0^{\circ}$ C @ 20° C (68° F), $\pm 2.5^{\circ}$ C @ 300° C (572° F) Display : 3-digit LED (no display hold) | Display Resolution : 1° C

Ramp Rates : 20°C (68°F) per minute to plateau, 2°C (3.6°F) per minute to melt

Dimensions: 160 W x 220 D x 170 mm H (6.4 x 8.7 x 6.8")

Weight: 1.8 kg (4 lb) | Electrical Supply: 120/240V, 50/60 Hz, 75 W



Melting Point Apparatus Analogue

Melting point apparatus, with thermometer and pack of 100 melting point tubes, open both ends, 240V, NIST Certificate, UK & European Power Cords , Number of

Samples: Up to 3

Temperature Range: 50 to 250°C (122 to 482°F) Heating Rate: 1 to 10°C (34 to 50°F) per minute

Dimensions: $370 \text{ W} \times 140 \text{ D} \times 110 \text{ mm H} (15 \times 5.5 \times 4.3")$

Weight: 1.7 kg (3.7 lb)

Electrical Supply: 120/240V, 50/60 Hz, 50 W

IP Rating: 40

Easy to Operate—Ideal for Educational Use Supplied with Safe Spirit Filled Thermometer





Timer, Dual Timer And Clock

The dual timer features two 24 hour countdown timers and also a 12/24 hour clock display. Counts in 1 second increments up to 24 hours. Complete with magnetic clip and stand. Batteries included.

Product Specifications:

Timer Count: 1 second countdown/up to 24 hours

12/24 hour clock

Time Accuracy Standard: /- 60 sec/month

Key Durability: Rubber key - 500,000 times (@200g /- 20g)

Contact switch - 200 times (vertical press)

Battery: 1 x LR44 (Supplied)
Battery Life: Approx 150 days
CE, ROHS/WEEE: Approved

Operating Temperature: 0 to 40°C (95% RH)

Operating Voltage: 1.2V to 1.7V x 2

Current Consumption :10?A (Stand-by current)

25mA (average alarm current) Electrostatic discharge ESD: /-8kV **LCD Dimensions:** 12mm x 32mm

Product Dimensions: 50mm x 60mm x 12mm

ESL57740



Timer , Four Way Timer And Clock

This device features 4 timers in one compact unit with 24 hour countdown and count up function. It also benefits from a large easy to read display and a 12/24 hour clock. Complete with stand and magnetic clip. Batteries included.

Product Specifications:

Timer Count: 24 hour countdown and up

12/24 hour clock

Time Accuracy Standard: /- 60 sec/month

Battery: 2 x LR44 (Included)
Battery Life: Approx 150 days

Operating Temperature : 0 to 40° C (95% RH) Operating Voltage : 1.2V to 1.7V x 2

Key Durability: Rubber key - 500,000 times (@200g /- 20g)

Contact switch - 200 times (vertical press)

CE,ROHS/WEEE: Approved

Current Consumption :10?A (Stand-by current)

25mA (average alarm current) Electrostatic discharge ESD: /-8kV

Alarm Sound: 70dB

LCD Dimensions: 22mm x 50mm

Product Dimensions: 62mm x 75mm x 15mm



Stopwatch Budget

Budget Stopwatch

1/100 second stopwatch with split timer function, calender and time. Comes complete with lanyard cord. Batteries included.

Features:

1/100 second stopwatch, Split timing function, Up to 23 hours, 59 minutes, 59 seconds, Clock shows hours, minutes, seconds, 12/24 hour selectable, Calendar shows day, month, year, Includes lanyard,

Product Specifications:, Timer Count: 1/100 second Battery: 1 x LR44 (Included), CE, ROHS/WEEE: Approved,

LCD Dimensions : 12mm x 27mm, Product **Dimensions :** 80mm x 55mm x 17mm

ESL57733



Stop Clock

Two sweep hands, one indicating seconds, the other recording minutes. Start-stop lever on the left hand side, zero reset lever on right hand side. Movement housed in metal case. Diameter of dial 100mm divided 0-60 x 1. Fitted in powder coated metal case.

ESP59918



Timer Bench Top

Product Specifications:

Timing Period : Up to 9 hours / 59 minutes / 59 seconds

Time Accuracy Standard: Within /- 1 second

Resolution: 1/100 second for 30 minutes then 1 second thereafter

Product Material: ABS Battery : 1 x AA (supplied)

Operating Temperature: 0 to 50°C Storage Temperature: -10 to 60°C CE,ROHS/WEEE: Approved **LCD Dimensions:** 63.7 x 19.7mm

Product Weight: 197g

Product Dimensions : $100 \times 97 \times 70.5 mm$

ESL57735



Timer Triple Timer And Clock

Product Specifications:

Timer Count: 20 Hour x 3

Time Accuracy Standard: /- 60 sec/month

Key Durability: Rubber key - 500,000 times (@200g /- 20g)

Contact switch - 200 times Battery: 2 x LR44 (Included) Battery Life: Approx 1 year CE, ROHS/WEEE: Approved

Operating Temperature: 0 to 40°C (95% RH)

Operating Voltage: 1.2V to 1.7V

Current Consumption: 15A (stand-by current)

10mA (average alarm current)

Alarm Sound Level: 70dB Min 1ft from product

Electrostatic discharge ESD: /-8kV **LCD Dimensions:** 45mm x 41mm

Product Weight: 60g

Product Dimensions: 92mm x 69mm x 13mm



ESL57737



Timer, Digital Kitchen Timer And Clock

Digital timer featuring 99 minutes 59 Seconds countdown count up timer with memory function, and 12 / 24 hour clock. Comes with hanger, stand and magnetic fixing. Battery included.

Product Specifications:

Timer Count: 99 minutes / 59 seconds

Battery: 1 x AAA (Supplied)
CE, ROHS/WEEE: Approved

Operating Temperature : 0 to 40°C (95% RH)

LCD Dimensions: 48mm x 20mm

Product Dimensions: 67mm x 77mm x 27mm

ESL57741



Stopwatch Analogue

Time measurement. One button have function to Start, Stop and Reset. In Stopwatch can be found freeze over round.

Size : Overall 50mm diameter

Thickness: 16mm

Scale: 0-60 x 0.2 sec., 0-30 x 1min

Material: Stainless steel

Mechanical (analogue) type timer

One button type for start button, reset and mechanic rotator spring

Dimension: 6.50 (L) x 6.50 (W) x 1.50cm (H)

Weight: 0.085 kg

ESL57745

Timer Slimline

Budget Stopwatch

1/100 second stopwatch with split timer function, calender and time. Comes complete with lanyard cord. Batteries included.

Features:

1/100 second stopwatch Split timing function

Up to 23 hours, 59 minutes, 59 seconds Clock shows hours, minutes, seconds

12/24 hour selectable

Calendar shows day, month, year

Includes lanyard

Product Specifications:

Timer Count: 1/100 second Battery: 1 x LR44 (Included) CE,ROHS/WEEE: Approved LCD Dimensions: 12mm x 27mm

Product Dimensions: 80mm x 55mm x 17mm

ESL57738



START

Timer, Countdown Digital Large

Large Digital Countdown Timer

Large digital countdown timer covering 99 minutes 59 Seconds. The timer is supplied with stand, clip and magnetic fixing. All of our timers are supplied with batteries included.

Product Specifications:

Timer Count: 99 minute / 59 second

Time Accuracy Standard: /- 60 sec/month (@ 25°C)

Battery: 1 x AAA (Supplied) Battery Life: Approx 1 year

Operating Temperature: 0 to 40°C (95% RH)

Operating Voltage: 1.2 to 1.7V Slide Switch Reliability: 5000 cycles

Key Durability: Rubber key - 500,000 times (@200g $\,$ /- 20g)

Contact switch - 200 times (vertical press) Current Consumption :15 A (Stand-by current)

10mA (average alarm current)
Electrostatic discharge ESD: /-8kV
Alarm Sound: 70dB Min 1ft from product
LCD Dimensions: 38mm x 64mm

Product Dimensions: 70mm x 80mm x 20mm

ESL57742

Timer, Countdown Digital Mini

Mini digital timer featuring 99 minutes 59 Seconds countdown and memory function. Complete with stand, clip and magnetic fixing. All of our timers are supplied with batteries included.

Product Specifications:

Timer Count: 99 minute / 59 second countdown Time Accuracy Standard: /- 60 sec/month

Key Durability: Rubber key - 100,000 times (@200g $\,$ /- 20g)

Contact switch - 5000 times (vertical press)

Battery: 1 x AAA (Supplied) Battery Life: Approx 2 year

Operating Temperature: 0 to 40°C (95% RH)

Operating Voltage: 1.2 to 1.7V

Current Consumption :10?A (Stand-by current)

&12mA (average alarm current)
Electrostatic discharge ESD: /-8kV
LCD Dimensions: 38mm x 64mm

Product Dimensions: 55mm x 55mm x 25mm





ES Pocket Meter

- Replaceable combined probe design, meeting different applications
- Multi-color backlight display, easy to read data in different modes
- Data reading indicator and automatic data locking when the reading is stable
- Low voltage indication ensures timely battery replacement
- Buffers solutions: standards are selectable
- Auto shut-off time, customized backlight display time
- Supplied with standard solution, sample vials and lanyard for convenient field test
- Dual-control mode with mobile APP connection to achieve powerful data storage
- The mobile APP provides 4 types of measurement display for different situations, including Graph, Graph mode, Table mode, Dial mode, and General mode
- Protection class: IP67



	Model		ESL57748	ESL57859	ESL57756	ESL57862	ESL57748B	ESL57859B	ESL57756B	ESL57862B
		pH/mV.°C	✓	-	-	✓	✓	-	-	✓
Parameter		mV(ORP).°C	✓	✓	-	✓	✓	✓	-	✓
		Cond/TDS/Sal./Res.°C	-	-	✓	✓	-	-	✓	✓
	Measurement range	(-2.00-16.00) pH	✓	-	-	✓	✓	-	-	✓
	Resolution	0.1/0.01	✓	-	-	✓	✓	-	-	✓
рН	Accuracy	±0.01pH±1digit	✓	-	-	\checkmark	\checkmark	-	-	✓
	Calibration points	1-, 2-, or 3-point	✓	-	-	√	√	-	-	✓
	ATC range	0~50°C (32-122°F)	✓	-	-	✓	✓	-	-	√
000	Measurement range	(-1000.0-+1000.0) mV	✓	✓	-	√	✓	✓	-	✓
ORP	Resolution	0.1/1	✓	✓	-	\checkmark	\checkmark	\checkmark	-	✓
	Accuracy	±0.1%F.S±1digit	✓	✓	-	✓	✓	✓	-	✓
Conductivity	Measurement range	0-2000.0mS/cm, auto-ranging: 0-19.999μS/cm; 20.0-199.9μS/cm; 20.0-199.9mS/cm;20.0-199.9mS/cm;20.0-199.9mS/cm;20.0-2000mS/cm K=10) Match test range: 0-200mS/cm TDS: 0-100.0g/L (TDS factor adjustable) Resistivity:5.00 Ω c-cm-100.0M Ω -cm	-	-	√	√	-	-	√	√
	Resolution	0.01/0.1/1	-	-	✓	✓	-	-	✓	✓
	Accuracy	±1.0%±1digit	-	-	✓	✓	-	-	✓	✓
Temperature	Measurement range	(0.0-50.0) °C/(32.0-122.0)°F	✓	✓	✓	✓	✓	✓	✓	✓
	Accuracy	±0.2°C	✓	✓	✓	✓	✓	✓	✓	✓
		Calibration reminder	-	-	-	-	✓	✓	✓	✓
		Sample ID Classification	-	-	-	-	✓	✓	✓	✓
APP		Timing datalogging	-	-	-	-	✓	✓	✓	✓
		Operation guider	-	-	-	-	✓	√	✓	√
		Various display modes	-	-	-	-	✓	\checkmark	✓	✓
		Meter	√	✓	√	√	√	√	✓	√
		Probe(pre-installed)	ESL57748-S	ESL57859-S	ESL57756-S	ESL57862-S	ESL57748B-S	ESL57859B-S	ESL57756B-S	ESL57862B-S
		pH buffer solution: pH4.00/7.00/10.01, 30mL, one for each	✓	-	-	-	✓	-	-	-
		3.0 mol KCl pH/ORP soaking solution, 10mL, 1 bottle	✓	√	-	√	✓	✓	-	✓
		Sample Vials: 30mL	3	1	2	4	3	1	2	4
		Standard ORP solution 222 mV, 30mL	-	✓	-	-	-	✓	-	-
Test Kit		Standard Cond solution 1413µS/12.88mS/cm 30mL, one for each	-	-	√	√	-	-	√	√
		pH buffer solution: pH4.00/7.00, 30mL, one for each	-	-	-	√	-	-	-	√
		4×1.5V AAA alkaline batteries (pre-installed)	✓	√	√	√	✓	✓	√	√
		Lanyard	✓	✓	✓	✓	✓	✓	✓	✓
		Hard carrying case (L/W/H: 28.0×23.0×8.2cm)	√	√	√	√	√	√	√	√
		Operation manual	✓	✓	✓	✓	✓	✓	✓	✓





The most cost effective pH tester, widely applied for general precision requirement in various water analytical situations.

The smallest and thinnest shape: 148×29×14mm. The diameter of the electrode: 10mm..

The best function: automatic calibration, automatic temperature compensation, automatic power off, low voltage alarm, pH electrode invalidation display, etc.

The easiest to use: single button operation.

The reliable structure design: meet IP57 waterproof, replaceable batteries, calibration solution, electrode soaking solution and standby batteries in a portable case.

The most cost-effective pen tester.

ESL57749



PH Meter Pocket Type

Economy pH tester, meet general requirements, cost-effective.

Automatic calibration, no temperature compensation.

Low voltage alarm display.

10 minutes automatic shut-down.

Replaceable electrode configuration calibration solution.

IP 57 waterproof rating. Measuring range: 0~14.0 pH

Resolution: 0.1 pH Accuracy: ±0.1pH±1 digit Temperature compensation: No

Automatic Calibration: 1 point calibration (7.00 pH)

Power:

2 AAA batteries, 1.5V × 2, more than 100 hours of continuous using

Size and weight: 39×25×176 mm/95g

FSI 57747

PH Meter Potable Hand-held

Portable advanced single measurement water quality meter

Smart electrode interchangeable water quality measurement with single input, multi-parameters readable. Easy operation, meter powered by six AAA batteries, receptacle device is built-in for tripod mountable enable to do long time monitoring purposes.

FEATURES:

Professional look design accurate portable meters with large LCD display, BNC connector.

All electrodes with BNC connector compatible to any other electrodes.

Hold function, low battery icon indicator, automatic power off in 15 minutes and may disable.

Built-in different temperature compensation selectable: PT100, PT1000 (pH electrode only), Thermistor 30K, 10K ohm.

RFS (Recover to Factory Setting) function is included.

3 points pH calibration: 4, 7, 10 (Adjustable). Calibration buffer solution are included with soaking solution.

Conductivity calibration points: 1413uS. Calibration solution is included.

Conductivity electrode may convert to TDS and Salinity concentration, adjustable conductivity to TDS conversion factor from 0.4 to 1.0. Three in one conductivity electrode (Cond. EC.TDS. Salinity measurement).

Conductivity cell constant (K) selectable: 0.1, 1.0, 10 (Selectable and adjustable). DO 100% self-calibration is convenient and simple. Calibrated both Saturated DO/ zero DO (Na2SO3) before shipment.

Compact DO electrodes supplied with 3M cable and membrane cap, electrolyte.

Galvanic electrodes do not require long warm up time as polarographic type electrodes. (Polarization is required about 10-215 minutes.) Tripod receptacle mountable design for long time monitoring purposes.

All sensors are well calibrated before shipment. Warranty period is two years. Long life sensors

SUPPLIED:

Meter, Battery-AAA x 6 pcs, Operation manual, Electrodes, Black carrying case, pH buffer solution x 3 pcs (pH 4, pH7, pH10). 1413uS buffer solution x1 (3M) Soaking Solution x 1

Specifications:

Data Hold:Freeze the display reading.

Meter Dimension: 180mm x 58mm x 32mm (With BNC connector), Power supply: AAA batteries x 6 pcs / 9V AC/DC (Option)

Temperature: 0~90 (PH) 0~90 (Cond/TDS/Salt/), Temp. accuracy: 0.5

PH: Measurement range PH: 0 to 14 pH, Accuracy 1% of full scale 1 digit, Resolution:0.01(pH)









Conductivity Meter Pocket Type

Economy conductivity tester, meet general requirements, cost-effective

Long measurement range, automatic switching range.

Automatic calibration, automatic temperature compensation (without temperature display.)

Low voltage alarm display.

10 minutes automatic shut down.

Conductivity calibration solution configuration.

IP57 waterproof rating.

Measuring range Divided into three sections, automatic switching range:

(0~99.9)μS/cm(100~999)μS/cm (1.00~10.00)mS/cm

Resolution: 0.1/1µS/cm:0.01 mS/cm

Accuracy ±1%FS

Temperature compensation : (0~50)°C (Auto)
Automatic Calibration 1 point calibration(1413µS/cm)

Power: 2 AAA batteries, 1.5V × 2, more than 100 hours of continuous using

Size and Weight: 39×25×176 mm/87g

ESL57755

Conductivity Meter Pen Type

The most cost effective pen conductivity tester, ability to switch among conductivity, TDS, salinity and resistivity, widely applied in surface water, sewage, drinking water, soil less, printing, wash water of plating tank, aquarium, fish pond, swimming pool, hot spring, etc. Compared with similar products: the widest measurement scope 0~50mS/cm, more measurement parameters, ability to switch among conductivity, TDS, salinity and resistivity. multinomial calculation for TDS and salinity to ensure the conversion precision of the full scale.

The smallest and thinnest shape: 148×29×14mm. The diameter of the electrode: 10mm. The best function: automatic calibration, automatic temperature compensation, automatic switch of range, automatic power off, low voltage alarm, etc.

The easiest to use: single button operation.

Meet IP57 waterproof rating, replaceable batteries, calibration solution and standby batteries in a portable case.

ESL57757



Conductivity EC /TDS/Salinity Pocket Tester Kit

Portable Pocket EC/TDS/Salinity Meter/Tester simply tests all kinds of regular conductivity measurements in an ACCURATE, QUICK, and RELIABLE manner. The applications include hydroponics, tap/drinking water, pools& spas, education, water treatment, environmental monitoring, etc. Up to 3 points of Auto Calibration with auto buffer recognition and 0 to 50°C Auto Temperature Compensation (ATC), 0.01 mS/±1% F.S, 0.5°C accuracy with measuring range of 0-200.0 μ S/cm, 0-2000 μ S/cm, 0-20.00 mS/cm, 0-50.0°C.

APERA's unique BPB (Brush-Resistant Platinum Black) sensor adopts a special processing technology, which minimizes electrode polarization, expands measuring range, and increases the firmness of the electrode, hence ensuring a much higher accuracy and consistency in a wide-range conductivity

measurement than traditional stainless steel electrodes, and is easy to clean. The probe is replaceable and easy to install so that you don't have to buy a whole new meter once the probe is aged.

Auto recognition and indication of stable values improves consistency, saving you the trouble of guessing when to manually hold measurement. With a large clear 180° viewing angle screen with 2 backlit colors (blue for measuring mode and green for calibration mode), it supports dual display of temp./ EC value and indications of completed calibrations (where M/H indicate 2 points of calibrations) and stable readings (with a smiley face).

Easy menu setting, customizing your tester functions according to your needs (switch of temperature unit, TDS factor setting, Switch of salinity unit, auto hold on/off). Smart self-diagnosis, warning of out-of-range/preset measurement and incorrect calibrations.

Comes with a complete kit. IP67 waterproof and dustproof, floating on water. 1000 hours' continuous operation powered by AAA batteries (with low power warning and auto power off in 8 min if no operation)





ES Portable Meter

Features

3.5° TFT Color Display, user-friendly interface

A robust POM housing and stainless-steel protective guard ensure durability when measuring in tough environments

No membranes, no electrolyte, no warm up, minimize hassle

Fast response (shorter than 15s), fluorescence sensor technology provides high accuracy and repeatability

Intelligent function with Auto. timing datalogger, parameter setting, data hold

Built-in temperature sensor, real-time temperature compensation

Automatic barometric pressure compensation

		N odel	ESL57752	ESL57860	ESL57806	ESL57807P Polarography Type	ESL578070 Optical Type
		pH/mV.°C	√	-	-	-	-
Parameter		mV(ORP).°C	✓	✓	-	-	-
i didilictei		Cond/TDS/Sal./Res.°C	-	-	✓	-	-
		DO	-	-	-	✓	✓
	Measurement range	(-2.000-20.000) pH	√	-	-	-	-
	Resolution	0.1/0.01/0.001 ±0.002pH±one digit	√ /	-	-	-	-
рН	Accuracy Calibration points	1, 2, -3pts automatic	√	-	-	-	-
	ATC range	(0.0-100.0) °C/(32.0-212.0)°F	√ √	_	-	-	-
	Measurement range	(-1999.9 - +1999.9) mV	√	✓	_	-	-
ORP	Resolution	0.1/1	./	√ √	-	-	_
OKF	Accuracy	±0.03%F.S±one digit	√	√	-	-	-
	Measurement range	0-2000.0mS/cm, auto-ranging : 0-19.999μS/cm; 20.0- 199.9μS/cm; 200-1999μS/cm; 2.00-19.99mS/cm;	-	-	√	-	-
Conductivity	Resolution	one point	_	-	√	_	_
	Accuracy	0.001/0.01/0.1/1	-	-	√ √	-	-
	ATC range	(0.0-50.0) °C/(32.0-122.0)°F	-	-	√	-	-
	Accuracy	±0.5 % FS±one digit	-	-	\ \	-	-
	Measurement range	(0.00-20.00) mg/L	-	-	-	√	√
		±0.30 mg/L	-	-	-	√	-
DO	Accuracy	±0.20 mg/L				-	√
D O	DO saturation	(0.0-200.0)%	-	-	-	✓	✓
	Barometric pressure compensation	(0-200.0) kPa	-	-	-	✓	✓
	Temperature compensation	(0.0-50.0) °C/(32.0-122.0)°F	-	-	-	\ \/	V
	Salinity compensation	0~45ppt	-	-	-	√	√
	Measurement range	(0.0-100.0) °C/(32.0-212.0)°F	√	√	√	√	√
Temperature	Accuracy	±0.2°C	√		- √	√	√
	Charging socket	Type-C	✓	<i>,</i>	<i>,</i>	√	
Others	Power supply	rechargeable lithium battery	√			√	
	IP Rating	IP57	√	✓	√	✓	· ✓
		Meter	✓	✓	✓	√	√
		Plastic ATC pH probe D201T-H	✓	-	-	-	-
		Plastic ORP probe DORP301	-	√	-	-	-
		Stainless-steel temperature probe DTEMP-02H	-	✓	-	-	-
		Plastic ATC Cond probe DCON201T, K=1.0	-	-	✓	-	-
		Polarographic DO probe DDO01-2M-H, cable length: 2m	-	-	-	√	-
		Optical DO probe DODO01-3M, cable length: 3m	-	-	-	-	√
		pH buffer solution: pH4.00/7.00/10.01, 50mL, one for each	✓	-	-	-	-
Test kit		Standard ORP solution: 222mV, 50mL,1btl	-	✓	-	-	-
		Standard Cond solution $84\mu\text{S}/1413\mu\text{S}/12.88\text{mS/cm}$, 50mL , one for each	-	-	✓	-	-
		Membrane refill solution DDOS-01, 30mL,1btl	-	-	-	√	-
		Membrane sensor caps DDOSC: 3pcs/group, 1pkg	-	-	-	√	-
		Rechargeable lithium battery (pre-installed)	√	✓	✓	√	√
		Charging cable: 1pc	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
		Hard carrying case (L/W/H: 33.0×27.2×8.2cm): 1pc	√	√	√	✓.	√
		Operation manual	✓	✓	✓	√	√



ES Desktop Meter

Features

High-res 7° display screen with white backlight, easy to read Automatic calibration, ATC measurement, parameter setup Automatic reading stable indication, calibration indication

Data storage: 450 readings

Data export: Flash disk/ Wireless printer (the printer is optional)

Equipped with a flexible probe holder and pH buffer solutions for convenient use

Protection class: IP54



	Мос	del	ESL57754	ESL57760	ESL57809	ESL57854	ESL57855	ESL57856	ESL57857
		pH/mV.°C	√	-	-	√	√		√
		mV(ORP).°C	√			√	✓		√
Parameter		Cond/TDS/Sal./Res.°C		√		· /		√	· ✓
				V	,		,		
		DO			√	-	√	√	√
	Measurement range	(-2.00-20.00) pH	✓	•	•	✓	✓	✓	✓
	Resolution	0.1/0.01	✓	-	-	✓	✓	-	✓
pН	Accuracy	±0.01pH±one digit	✓	-	-	✓	✓	-	✓
	Calibration points	1, 2, -3pts automatic	✓	-	-	✓	✓	-	✓
	ATC range	(0.0-100.0) °C/(32.0-212.0)°F	√	-	-	√	✓	-	✓
	Measurement range	(-1999.9 - +1999.9) mV	√			√	√		
ORP	Resolution	0.1/1	√			· /	✓		
OKF								-	
	Accuracy	±0.1%F.S±one digit	√		-	√	√	-	
Conductivity	Measurement range	0-200.0mS/cm, auto-ranging: 0-19.99μS/cm; 20.0-199.9μS/cm; 200- 1999μS/cm; 2.00-19.99S/cm; 20.00-199.9mS/cm; TDS: 0 - 100.0g/L (TDS factor adjustable) Resistivity: 5.00Ω·cm-100.0MΩ·cm Salinity: 0-100ppt		√		J		√	✓
	Calibration points	one point	-	✓	-	✓	-	✓	√
	Resolution	0.01/0.1/1	-	✓	-	√	-	√	✓
	ATC range	(0.0-50.0) °C/(32.0-122.0) °F	-	✓	-	✓	-	✓	✓
	Accuracy	±1.0% FS±one digit	-	✓	-	✓		✓	✓
	Measurement range	(0.00-20.00) mg/L		-	✓	-	✓	✓	✓
	Accuracy	±0.30 mg/L	-	-	✓	-	✓	✓	✓
DO	DO saturation Automatic barometri pressure compensation	(0.0-200.0)% (0-200.0) kPa	-	-	√ ✓	-	√ √	√ √	√ ✓
БО	Automatic temperature compensation	(0.0-50.0) °C/(32.0-122.0)°F		-	√		✓	√	√
	Manual salinity compensation	0-45ppt		-	√		√	√	√
Temperature	Measurement range	(0.0-100.0) °C/(32.0-212.0)°F	✓	✓	✓	✓	✓	✓	✓
remperature	Accuracy	±0.2°C	✓	✓	✓	✓	✓	✓	✓
Others	Data export	Flash disk/Printer	✓	✓	✓	✓	✓	✓	✓
	Power supply	DC12V	√	√	√	√	✓	✓	✓
		Meter Plastic ATC pH probe D201T	√ √	√	✓	√	√ ,	✓	√
		Plastic ATC Cond probe DCON201T, K=1.0	-	- √	_	√ √	√	-	√ √
		Polarographic DO probe DD001-2M, cable length: 2m		-	√	-	✓	√ √	√ ✓
		pH buffer solution: pH4.00/7.00/10.01, 50mL, one for each	✓	-	-	√	√	-	√
Test kit		Standard Cond solution 84µS/1413µS/12.88mS/cm, 50mL, one for each	-	✓	-	√	-	✓	√
		Membrane refill solution DDOS-01, 30mL,1btl		-	√	-	√	√	√
		Membrane sensor caps DDOSC: 3pcs/group, 1pkg	-	-	✓	-	✓	✓	✓
		Power adaptor: 1pc	✓	✓	✓	✓	✓	✓	✓
		Flexible probe holder DF01: 1pc	✓	✓	✓	✓	✓	✓	✓
		Operation manual	✓	✓	✓	✓	✓	✓	✓



ES Desktop Meter

Features

High-res 7" display screen with white backlight, easy to read Automatic calibration, ATC measurement, parameter setup Automatic reading stable indication, calibration indication Data storage: 450 readings

Data export: Flash disk/ Wireless printer (the printer is optional)

Equipped with a flexible probe holder and pH buffer solutions for convenient use

Protection class: IP54



		Model	ESL57754T	ESL57760T	ESL57809T	ESL57854T	ESL57855T	ESL57856T	ESL57857
		pH/mV.°C	✓	-	-	✓	✓	-	✓
Darameter		mV(ORP).°C	✓	-	-	✓	✓	-	✓
Parameter		Cond/TDS/Sal./Res.°C	-	✓	-	✓	-	✓	✓
		DO	-	-	✓	-	✓	✓	✓
	Measurement range	(-2.000-20.000) pH	✓	-	-	✓	✓	-	✓
	Resolution	0.01/0.001	✓	-	-	✓	✓	-	✓
Н	Accuracy	±0.002pH±one digit	✓	-	-	✓	✓	-	✓
	Calibration points	1, 2, -5 pts automatic	✓	-	-	✓	✓	-	✓
	ATC range	(0.0-100.0) °C/(32.0-212.0) °F	✓	-	-	✓	✓	-	✓
	Measurement range	(-1999.9 - +1999.9) mV	✓	-	-	✓	✓	-	-
ORP	Resolution	0.1/1	✓	-	-	✓	✓		-
	Accuracy	±0.03%F.S±one digit	✓	-	-	✓	✓	-	-
Conductivity	Measurement range	0-2000.0mS/cm, auto-ranging: 0-19.999μS/cm; 20.0-199.9μS/cm; 200- 1999μS/cm; 2.00-19.99mS/cm; 2.00-19.99mS/cm; 200.0-2000mS/cm (K=10) Match test range: 0-200mS/cm TDS: 0- 100.0g/L (TDS factor adjustable) Resistivity: 5.000Ω-cm-100.0MΩ-cm Salinity: 0-	-	✓	-	√	-	√	√
	Calibration points	one point	-	✓	-	✓	-	√	✓
	Resolution	0.001/0.01/0.1/1	-	✓	-	✓	-	✓	✓
	ATC range	(0.0-50.0) °C/(32.0-122.0) °F	-	✓	-	✓	-	√	✓
	Accuracy	±0.5 % FS±one digit	-	✓	-	✓	-	✓	✓
	Measurement range	(0.00-20.00) mg/L	-	-	✓	-	✓	✓	✓
	Accuracy	±0.30 mg/L	-	-	✓	-	✓	✓	✓
	DO saturation	(0.0-200.0)%	-	-	✓	-	✓	√	✓
00	Automatic barometri pressure compensation	(0-200.0) kPa	-	-	√	-	√	√	✓
	Automatic temperature compensation	(0.0-50.0) °C/(32.0-122.0) °F	-		✓	-	✓	√	✓
	Manual salinity compensation	0-45ppt	-	-	✓	-	✓	✓	✓
omporature	Measurement range	(0.0-100.0) °C/(32.0-212.0) °F	✓	✓	✓	✓	✓	✓	✓
emperature	Accuracy	±0.2°C	✓	✓	✓	✓	✓	✓	✓
Others	Data export	Flash disk/PC/Printer	✓	✓	✓	✓	✓	✓	✓
Julei S	Power supply	DC12V	✓	✓	✓	✓	✓	✓	✓
		Meter	✓	✓	✓	✓	✓	✓	✓
		Glass refillable combination pH probe D201G	✓	-	-	✓	✓	-	✓
		Stainless-steel temperature probe DTEMP-01	✓	-	-	✓	✓	-	✓
		Glass ATC conductivity probe DCON201TG, K=1.0	-	✓	-	✓		✓	✓
		Polarographic DO probe DD001-2M	-	-	✓	-	✓	✓	✓
		pH buffer solution: pH4.00/7.00/10.01, 50mL, one for each	✓	-	-	✓	✓		✓
est kit		Standard Cond solution 84µS/1413µS/12.88mS/cm, 50mL, one for each	-	√	-	√	-	√	✓
		Membrane refill solution DDOS-01, 30mL,1btl	-	-	✓	-	✓	✓	✓
		Membrane sensor caps DDOSC: 3pcs/group, 1pkg	-	-	✓		✓	✓	✓
		PC cable: 1pc	✓	✓	✓	✓	✓	✓	✓
		Flexible probe holder DF01: 1pc	✓	✓	✓	✓	✓	✓	✓
		Magnetic stirrer: 1pc	✓	✓	✓	✓	✓	✓	✓





Dissolved Oxygen Meter

Portable (DO Meter)

Equipped with state-of-the-art Optical DO sensor: measures dissolved oxygen level in a RELIABLE and EFFORTLESS manner Intelligent functions: Auto, recognition of stable values Minimal maintenance required. Easy calibration IP57 waterproof and dust-proof structure, ideal to be used in harsh environments

Powered by AAA batteries, Comes with a complete test kit, including the meter, optical probe, calibration cap, and a rugged carrying case Set Includes the Following:

- 1. Portable DO meter 1pc
- 2. Optical DO probe 1pc
- 3. Calibration cap 1pc
- 4. Carrying case
- 5. Manual

ESL57808



PH & Conductivity Meter Desk Top

pH + Conductivity Double-Parameter measurement meter which is suitable for general measurement in laboratory. It is suitable for measuring the pH value of moderate ionic strength aqueous solution, and conductivity values of conventional solution

- The most widely used pH + Conductivity Double-Parameter measurement meter.
- Meter meets with the requirement of international GLP standards. Its features up to automatic calibration, automatic temperature compensation, data storage, timing measurement, clock display, RS-232 output, function setting and self-diagnose etc.
- · There are three different measurement modes: stable display mode; time measurement mode; continuous measurement mode.
- Automatically recognize pH buffer solution. User can choose anyone from three series of standard buffer solutions: Europe & USA series, NIST series and China series.
- · Adopt advanced and original conductivity measurement technology, use 1 pc of conductivity electrode (K=1), it can meet measuring accuracy requirement for range within $0.5\mu S/cm \sim 200mS/cm$ by using only onepoint calibration.

Can switch Conductivity, TDS, Salinity and Resistivity.

Meter has the only product serial number.

Dust-proof and waterproof meter meets IP54 standards. All sockets are seal protected by the silica gel caps.

ESL57759

Conductivity/TDS Portable Meter Kit

Our Portable Conductivity/TDS Meter Kit is the most economical choice for a reliable portable conductivity meter. Equipped with A Instrument BPB (Brush-Resistant Platinum Black) conductivity sensor/electrode/tester, the meter tests EC, TDS, and temperature simultaneously in a guick and accurate manner (Accuracy: ±1.0% F.S, Range: 0 to 200mS, 0 to 50°C(32 to 122°F) Auto or Manual Temperature

Compensation) Intelligent Functions: Quick & Easy 1 to 3 Points Auto Calibration. The Smart Self-Diagnosis helps you conduct proper calibrations



and determine the condition of your probe. Fully configurable parameter setting: solution standards, temperature unit, backlight time, autopower off time, TDS factor, temperature coefficient, etc. The large clear LCD displays EC/Temperature simultaneously along with icons of stable readings and finished calibrations.

Reliable Structure: IP57 Waterproof and Dustproof, ideal for use in harsh environments. It comes with a complete test kit including a Portable Conductivity Meter, a Conductivity Electrode, and 3 calibration solutions in a rugged carrying case. Powered by AA Batteries.

ESL57760



General laboratory bench pH meter, which is suitable for measuring moderate ionic strength solutions, such as surface water, lake water and industrial wastewater. It can be used in most of the areas related to water quality analysis. Meter meets with the requirement of international GLP standards. Its features up to automatic calibration, automatic temperature compensation, data storage, timing measurement, clock display, RS-232 output, function setting and self-diagnose etc.

• There are three different measurement modes: stable display mode; time measurement mode; continuous measurement mode.

Automatically recognize pH buffer solution.

Meter has the only product serial number.

Dust proof and waterproof meter meets IP54 standards. All sockets are seal protected by the silica gel caps. pH.

Tel: +44 (0)203 8685740

FSI 57753



Electrode Holder Flexible

Base of holder is made up of ABS hull, cast iron counter weight and axis of rotation of stainless steel. All of these lead to professional design, attractive appearance and stability.

hree electrodes can be put into electrode chuck (electrode capΦ16 mm)







Name	Combination pH electrode
Mode	D201G
Connector type	BNC
Housing material	Glass
Measurement range	0-14.0pH
Temp. range	0-100°C
Junction	Ceramic
Junction Electrolyte	Ceramic 3 mol KCl (refillable)
	00.0

Name	Combination pH electrode
Mode	D201A-C
Connector type	BNC
Housing material	PC
Measurement range	0-14.0pH
Temp. range	0-60°C
Junction	Ceramic
Electrolyte	3 mol KCl Gel
Reference electrode	Ag/AgCl
Cable length	1m



Name	Combination ORP electrode
Mode	DORP301
Connector type	BNC
Housing material	PC
Measurement range	-1999-+1999mV
Temp. range	Platinum ring 0-60°C
Junction	Ceramic
Electrolyte	3 mol KCl
Reference electrode	Ag/AgCl
Cable length	1m



Name	Combination Cond electrode
Mode	DCON201TG
Connector type	4-pins
Temp thermistor	10ΚΩ
Housing material	Glass
Constant	K=1.0±0.02cm-1
Sensor	Platinum plate
Measurement range	0.5μS/cm- 200.0mS/cm
Temp. range	0-80°C
Cable length	1m



Name	Combination Cond electrode
Mode	DCON201/DCON201T
Connector type	BNC/4-pins
Temp thermistor	/10ΚΩ
Housing material	PC
Constant	K=1.0±0.02cm ⁻¹
Constant Sensor	K=1.0±0.02cm ⁻¹ Platinum rod
Sensor Measurement	Platinum rod 0.5µS/cm-





Name	Ultra-purified water Cond electrode
Mode	DDJS-0.01V
Connector type	4 pins
Constant	K=0.01±0.02cm ⁻¹
Sensor	Titanium
Measurement range	0-2.0μS/cm
Cable length	1m



Name	Temperature electrode
Mode	DTEMP-01/DTEMP-02H
Connector type	miniBNC/4-pins
Sensor	10ΚΩ
Material	Stainless steel
Temp. range	0-110°C
Cable length	1m



Name	Polarographic DO
Mode	DDO01-2M-H/DDO01- 2M
Connector type	8-pins / BNC & miniBNC
Housing material	POM
Measuring type	Polarographic type
Measurement range	0-20mg/L 0-200% Saturation
Temp. range	0-50.0°C
Cable length	2m



Name	Optical DO
Mode	DODO01-3M
Connector type	8-pins
Housing material	POM and stainless -steel protection guard
Measuring type	Optical type
Measurement range	0-20mg/L; 0-200% Saturation
Temp. range	0-50.0°C
Cable length	3m





Colorimeter 2.0 Basic

Measures transmittance or absorbance of visible light at three wavelengths through a sample with a 10mm path length and displays the values on a liquid crystal display or via USB to dedicated PC software or through a wireless connection to an app on iOS or Android phones and tablets. Disclaimer The colorimeter is suitable for educational use. It is not intended for clinical, commercial or research applications. Specifications Power source: 4×AA batteries (included) or USBA to mini B Power switch: On/Off – automatic switch off after 2 minutes unless connected to USB or app. Wireless connection: Bluetooth 4.0 (LE, Smart) Measures: Transmittance: 0-100.0% - resolution 0.1% Absorbance: 0.000-1.999 stand alone or 0.000-3.000 with PC or phone/ tablet - resolution 0.001 LEDs: Red ~630nm, Green ~525nm, Blue ~465nm Sample holder: 10×10mm plastic or glass cuvette, capacity 4mls or 12mm diameter test-tube Weight: 240g Packed weight: 420g includes 10 cuvettes, 10 cuvette caps, 2 test-tubes, USB cable, laminated quick instruction card, instruction manual, 4 × AA batteries, packaging. PC Software: System requirements: Windows 2000, XP, Vista, Windows 7, 8 or 10 with the .NET Framework 2.0 or later installed. Download: Free IOS app: Name: Mystrica Colorimeter Download: Free from the App Store Use with: iPhone 4S or later (not 4) or iPad Air, Mini, 3rd & 4th generation Android app: Name: Mystrica Colorimeter Download: Free from the Google Play Store Use with: Bluetooth 4.0 enabled Android devices Compliance: CE compliance tested FCC ID: 2AC8AMYS2 Warranty: 1 year subject to normal use

ESL57771

Colorimeter 2.0 Basic Set/4

set of four Colorimeter Wireless 2.00 ESL57771 and fitted in a deep Gratnells tray with alid and polyethylene foam insert; Apart from the colorimeters the contents are:

- a box of 40 4ml cuvettes a box of 80 cuvette caps a box of 25 12mm glass test-tubes 4 cuvette racks 4 USB cables
- 4 laminated instruction sheets 2 user manuals





Colorimeter 1G-7

New LED technology with broad spectral coverage - Works with a 10 x 10 mm cuvette or a 14 mm test tube - Can be used as a standalone measuring device or in Data Acquisition Systems

Light source: LED - Measurement on 7 wavelengths between 470 and 660 nm - Wavelengths: 470 nm - 525 nm - 570 nm - 590 nm - 605 nm - 626 nm and 660 nm - Absorbance: from -3 to +3 abs - Transmission: from 0 to 100% T - Resolution: 0.01 abs / 100.0% - Precision: ± 1.5% - Analog output: on 4 mm safety banana sockets,-3V/3V corresponding to -3 abs/3 abs of absorbance. - 0V/1V corresponding to 0/100% transmission. - Power supply: mini USB power supply (provided). - Dimensions: 160 x 120 x 70 mm.

Student Spectrophotometer USB and Bluetooth

Technical Specifications: Measurement Modes: - Transmittance - Absorbance - Fluorescence/Bioluminescence Resolution: 2 - 3 nm Samples: 10x10mm cuvette or 50x50mm slide Spectral Range: 360 - 1000 nm Light Sources: - White LED + selectable colors (via software) - Side excitation LEDs 395-415 nm and 500-540 nm Connection: USB or Bluetooth Software: Integrated (USB mode) - Plug & Play Application: To download (Bluetooth mode) Power Supply: Built-in battery + charger included Python Compatibility: Yes Software Compatibility: W7 and +, Mac, Android, iOS Included Accessories: Cuvette/slide cover, cord, power block Battery: - Usage: 8 hours - Maximum charging time: 4 hours Dimensions: 190 x 120 x 60 mm.

FSI 57814



Student Spectrophotometer USB and Bluetooth kit & Optical Fiber

ESL578140F



Spectrophotometer UV VIS Smart

Our Smart System can grasp the quantitative characteristics such as density or purity by measuring transmittance or optical density according to wavelength of sample in the range of ultraviolet rays and visible ray. Smart can be utilized from not only a general analysis experiment to but also a specialized research field and guarantee accurate measurement and excellent reproducibility, accordingly offer reliable results in the various fields such as environment, biotechnology, chemistry, etc.

ESL57764

Photometrics System : Double-beam type Spectral Bandwidth : 1 nm (190 to 1100 nm) : 1 nm (190 to 1100 nm) Wavelength Range Wavelength Display(setting) : 0.1 nm : <± 0.05 nm at 486, 656.1 nm Wavelength Accuracy <± 0.3 nm (190 to 1100 nm) Wavelength Repeatability : <± 0.1 nm Slew Rate : About 8,800 nm/min Scan Speed : Max 4,000 nm/min : Absorbance: -4 to 4 Abs Photometric Range Transmittance: 0 % to 400 % :Tungsten Halogen Lamp &Deuterium Lamp Light Source (Built-in light source auto interchanging motor) Stray Light : < 0.02 % Nal at 220 nm, NaNO2 at 340 nm

Monochromator : Czerny-Turner type with 1200 lines/nm blazed grating Standard Multi- Cell

: ± 0.0002 at 0.5 Abs

: Windows 10 (Embedded PC);

Multi-Cell Holder Photometric ± 0.0006 at 1.0 Abs Repeatability ± 0.001 at 2.0 Abs Baseline Stability : < 0.0003 Abs/h : <± 0.0005 Abs **Baseline Flatness** Lamp Interchange : 340~410 nm (Default 370 nm) Wavelength Display : 8 inch color LCD with touch screen Operating System(OS) Power Requirement

Weight(kg) Dimensions(W \times D \times H) : 100~240 V; 50~60 Hz



United Kingdom

Spectrophotometer Double Beam UV VIS

Native USB socket

Integrated software: no installation - Wavelength range: 380-800 nm

Easy to use, this spectrophotometer makes chemistry experiments feasible for students. Connected to the computer via a native USB socket, this spectrophotometer, with its integrated software, will be ready to acquire data whatever the workstation. New features: such as real-time spectrum observation. With 3D kinetics, the colorimetric dosage of a solution, initially transparent, can be carried out without knowing the final color of the solution. Functionalities maintained: absorbance, transmittance, Beer-Lambert, colorimetric dosage, monitoring of classic kinetics.

The acquisition duration (automatic or manual) makes it possible to adapt the measurement dynamics to the solution or filter analyzed.

Possible Experiments:

- Absorbance / Transmittance.
- Reer-Lambert
- Colorimetric dosages
- Kinetic Monitoring: traditional and 3D
- Study of colored filters

Compatibility: XP/ Seven 32 & 64 bits/ Windows 8 Measurement mode: Absorbance-Transmittance Integration time: auto or manual; 0.1ms to 5s.

Real-time spectrum

Photometric range: Abs: 0 to 2.5 / T (in %)

Power supply: supplied



Baseline Stability: <± 0.001 Abs/h

Baseline Flatness: ± 0.002 Abs

: Czerny-Turner type with 1200 lines/nm Monochomater

blazed grating

: Tungsten Halogen Lamp & Deuterium Lamp **Light Source** (Built-in light source auto interchanging motor)

Photometer Portable Mini

Optical System Reflectance Monochromatic with Optical LED Detector Photo-diode

Photo-diode 128x64 dot matrix graphic LCD

Printer Small label printer (Optional)

Power requirement Four 1.2V Ni-MH rechargeable batteries

DC 9V 1A Adapter

Inhibition Reproducibility ± 3%

Data save Maximum 2000

Interface Ports USB communications RS-232C serial

Data download PC S/W Provided (Optizen MiNiView)

Time setting Extraction 5min/Reaction 10min

Overall Dimensions: 110(W) x 48(H) x 245(D)

Weight: 500g

Photometer Portable Round Cell Holder

Accessory for spectrophotometer

ESL57767

ESL57769



Spectrophotometer Vis

ESL57763

Optical System : Single Beam

Spectral Band Width : 1.8 nm (190 to 1100 nm)

Wavelength Range : 190 to 1100 nm Wavelength Display(setting): 0.1 nm Wavelength

Accuracy : <± 0.5 nm

Wavelength Reproducibility : <± 0.1 nm

Slew RateScanning : About 8,800 nm/min : Max 4,000 nm/min Speed Photometric : Absorbance : -3 to 3 Abs Range

Transmittance : 0 % to 300 % Photometric Accuracy : ± 0.005 at 1.0 Abs Photometric Reproducibility: ± 0.003 at 1.0 Abs

Stray Light : < 0.05 % Nal at 220 nm, NaNO2 at 340 nm

: Automatic Rotary type 8-position Multi-Standard Cell Holder Cell Holder

Display : 7 inch color LCD with touch screen

Operating System(OS) : Windows CE Power Requirement :100~240 V; 50~60 Hz

Overall Dimensions : (W x D x H) 433 mm x 381 mm x 180 mm

Weight : 8 Kg



Photometer Portable Cell Holder Cover

Accessory for photometer portable mini





Spectrophotometer

The spectrophotometer is an indispensable instrument routinely used in colleges, universities and research institutes for quantitative analysis in fields including biotechnology and quality control of new material developed. V-Series provide high resolution, high performance and excellent stability.

Features

- User Friendly Operation and Information Rich LCD Display: The large 128 x 64 dots, backlit LCD screen with adjustable brightness control displays a large array of data also in graphical format
- On-Board Data Storage: The System can save the test results, up to 200 group datas and 200 standard curves in the RAM memory
- Data can be restored after a sudden power failure
- Auto setting wavelength: Setting wavelength automatically to calibrate the system through arrow keys to avoid operation errors
- · Automatic Switching: Tungsten & Deuterium lamps switching is automatic. Wavelength range are selectable from 190 to 1100nm
- PC control through application software: The spectrophotometer is fully equipped and capable of executing all functions in stand-alone mode. The optional application software 'Wave Professional' provides computer control through the built-in USB port, apart from other functions such as spectrum scan, time scan(kinetics), multiwavelength scanning & Nucleic Acid / Protein measurement. (ESL57812/ESL57813)
- Large sample compartment: To accommodate 5–100mm path length cuvettes with optional holders. A variety of optional accessories are available

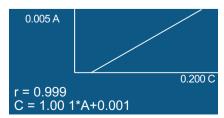
ESL57810- ESL57811

ESL57812- ESL57813

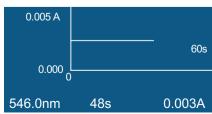
	В	as	IC	IVI	0	d	e
--	---	----	----	-----	---	---	---

546.0nm	0.001A
No.	Abs
1	0.001
2	0.000
3	0.002
4	0.000
5	0.003

Quantitative



Kinetics













Model	ESL57810	ESL57811	ESL57812	ESL57813
Optical System	Single Beam	Single Beam	Single Beam	Single Beam
Light Source	Tungsten lamp	Tungsten lamp &Deuterium lamp	Tungsten lamp	Tungsten lamp &Deuterium lamp
Spectral Bandwidth	4.0nm	4.0nm	2.0nm	2.0nm
Wavelength Range	325-1000nm	200-1000nm	320-1100nm	190-1100nm
Wavelength Accuracy	±2nm	±2nm	±0.5nm	±0.5nm
Wavelength Repeatability	≤1nm	≤1nm	≤0.3nm	≤0.3nm
Photometric Range	-0.3 - 3.0 A, 0 - 200%T	-0.3 - 3.0 A, 0 - 200 %T	-0.3 - 3.0 A, 0 - 200 %T	-0.3 - 3.0 A, 0 - 200%T
Photometric Accuracy	±0.003 A @ 0.5 A, ±0.006 A @ 1.0 A, ±0.5%T @ 100%T	±0.003 A @ 0.5 A, ±0.006 A @ 1.0 A, ±0.5%T @ 100%T	±0.003 A @ 0.5 A, ±0.006 A @ 1.0 A, ±0.5%T @ 100%T	±0.003 A @ 0.5 A, ±0.006 A @ 1.0 A, ±0.5%T @ 100%T
Photometric Repeatability	≤0.0015 A @ 0.5 A, ≤0.003 A @ 1.0 A, ≤0.25%T @ 100%T	≤0.0015 A @ 0.5 A, ≤0.003 A @ 1.0 A, ≤0.25%T @ 100%T	≤0.0015 A @ 0.5 A, ≤0.003 A @ 1.0 A, ≤0.25%T @ 100%T	≤0.0015 A @ 0.5 A, ≤0.003 A @ 1.0 A, ≤0.25%T @ 100%T
Stability	≤0.002 A/h @ 500 nm (after preheat 2 hours)	≤0.002 A/h @ 500 nm (after preheat 2 hours	≤0.002 A/h @ 500 nm (after preheat 2 hours	≤0.002 A/h @ 500 nm (after preheat 2 hours
Stray Light	≤0.2%T @ 360nm	≤0.2%T @ 220&360nm	≤0.05%T @ 360nm	≤0.05%T @ 220 & 360nm
Sample Compartment	4-position, 10mm path length cuvette			
Display	LCD	LCD	LCD	LCD
Output	USB Port & Parallel Port (Printer)			
Power	110/220VAC, 50/60Hz, 80W	110/220VAC, 50/60Hz, 80W	110/220VAC, 50/60Hz, 80W	110/220VAC, 50/60Hz, 80W
Dimension(L×W×H)	490×360×210mm	490×360×210mm	490×360×210mm	490×360×210mm
Weight	12kg	14kg	12kg	14kg



Cat. No. 578100337 Micro Cell holder



Cat. No. 578100340 8-position auto cell changer (for ESL57812& ESL57813)



Cat. No. 578100331 4-cell holder for 10mm squ.cuvette



Cat. No. 5781000332 4-cell holder for 10mm to 50mm squ. cuvette



Cat. No. 578100333 4-cell holder for up to 100mm squ.cuvette



Cat. No. 578100338 Test tube holder(ø8-ø22mm)



Cat. No. 578100334 cylindrical cell holder(ø16mm)



Cat. No. 578100339 solid sample holder (ø1.5-3mmø1 position)



Cat. No. 578100335 10mm water-jacketed 1 cell holder (for ESL57812& ESL57813)



Cat. No. 578100336 10mm water-jacketed 4-cell holder (for ESL57812& ESL57813)



Cat. No. 578100343 Square cuvettes glass/quartz 1-5mm/10-100mm





Cat. No. 578100342Milas deuterium lamp,10V,300mA, 30W (for ESL57812& ESL57813)

Disc Polarimeter

ESL57820

±180° Range 1° Scale Value Vernier 0.05° Magnifier 3X

Light Source Sodium lamp Wavelength 589nm

Tube Length 50, 100, 200mm Power 220V/50Hz

Dimensions 500(L)×135(W)×330(H)mm

Weight 5kg

600(L)200(W)x400(H)mm Package



Cat. Number	Descriptions
57820001	Poalrimeter Tube 100mm
57820002	Poalrimeter Tube 200mm
57820003	Sodium Lamp 589nm

ESL-R03AR Series Abbe Refratometer

ESL57822

thermometer. Liquid, solid and pasty samples can be evaluated. This refractometer is robust, accurate and easy to use.



Model	Scales	Range	Resolution	Accuracy
ESL57822	Brix	0-95%	±0.1	0.25%
	Refractive Index	1.3000-1.7000nD	±0.0002nD	0.0005nD





Vernier Calliper - Whirl, Plastic

Columbus type calliper enabling the user to read either inside, outside or depth measurements. With dual scale 0-12 cm \times 0.1mm Imperial scale graduated to 5 \times 1/128 provided with thumb wheel for easy motion of jaws, in plastic case.

ESL57774



Vernier Calliper - Whirl, Steel

Columbus type calliper enabling the user to read either inside, outside or depth measurements. With dual scale 0-12 cm \times 0.1mm Imperial scale graduated to 5 \times 1/128 provided with thumb wheel for easy motion of jaws, in plastic case.

ESL57775



Vernier Calliper Digital

Measuring range: 0-150mm , Readability: 0.01mm



Vernier Calliper Aluminium

 $\label{lem:vernier} \mbox{Vernier calliper made of aluminium , high quality .}$

ESL57777 0-150 0.05 mm



Measuring Tape

Fiber glass windup meter tape with tow sides marking sealed in cannot tear-wind up case length Deferent meter

ESL57791	Measuring Tape	5 M	
ESL57792	Measuring Tape	10 M	. 10
ESL57793	Measuring Tape	15 M	Indiana
ESL57794	Measuring Tape	25 M	ب
ESL57795	Measuring Tape	50 M	



Micrometer 0-25 Mm With Lock

With ratchet top, accurately machined stainless steel rod. Range 0-25 \times 0.01 mm, supplied in case. Accuracy is perfect for a hobbyist or student -- at 10mm, accuracy is +/- .003mm.



Micrometer 0-25 mm

With ratchet top, accurately machined stainless steel rod. Range 0-25 \times 0.01 mm, supplied in case. Accuracy is perfect for a hobbyist or student -- at 10mm, accuracy is +/- .003mm.

ESL57783



Micrometer Digital

Measuring range: 0-25mm, Readability: 0.001mm

ESL57786



Spherometer Superior

Brass dial head about 40mm dia., Divided and marked in 100 divisions, vertical scale 10-0-10mm, fitted on heavy brass disc, with 3 pointed legs, distance between legs 40mm.

ESL57723







Flexible Desk Lamp

Versatile flexible neck

- Metal and plastic construction
- Integral on/off switch
- Height: 340mm approx

ESL57877

Lamp Bulbs, Round



D Battery Holder with Socket Terminals Used as battery holder size UM1 or D Size: 120 x 70mm, with 4mm socket terminal

Material: Plastic

Can be mounted on the board

Weight: 0.029kg

ESL57900

Lamp Holder Mounted SBC

Solid steel Small Bayonet Cap (SBC) lamp holder with a tough powder coat paint finish and a solid brass lamp holder with 2 x 4mm

electrical sockets. Ready to use. Pack of 10

ESL57880 (12V 21W lamp)₉ PK OF 10

ESL57881 (12V- 36W Axial lamp), PK OF 10

ESL57882 (12V - 24W Axial lamp), PK OF 20



Lamp Bulbs, Round

M.E.S. Cap, 1.25V

FSI 57890

Lamp Bulb E 10, 1.5v/0.2a (10pcs/Pack)

Lamp Bulb E 10, 1.5V/0.2A (10pcs/pack)

Voltage: 1.5V, Ampere: 0.2A

Packaging: 10pcs/pack

Dimension: 14.00 (L) x 9.00 (W) x 2.00cm (H) ESL57889

Lamp Bulb E 10, 2.5v/0.5a (10 Pcs/Pack)

Lamp Bulb E 10, 2.5V/0.5A (10 pcs/pack)

Voltage: 2.5V Ampere: 0.5A

Packaging: 10pcs/pack

Dimension: 14.00 (L) x 9.00 (W) x 2.00 cm (H)

Weight: 0.013kg

ESL57888

Lamp Bulb E 10, 10V (10 PCS/Pack)

the value of the voltage should be printed clearly on the bulb.

ESL57886

Lamp Bulb E 10, 12V (10 PCS/Pack)

the value of the voltage should be printed clearly on the bulb.

ESL57886/12

Lamp Bulb E 10,5V (10 PCS/Pack)

the value of the voltage should be printed clearly on the bulb.

ESL57887

Lamp Bulbs, Lens Ended

2.2V, 0.25A, lens ended, M.E.S. Cap.



Buzzer Piezo

The tones is slow pulse with operating with 3V the sound level SPL is 85dB and self resonant frequency about 3.7kHz. The dimension for external diameter is 29.5mm and external depth is 24.5mm with leaded process compatible

ESL57977



Battery Holders Pk Of 10

The Irwin Tapped pack of 10 battery holders hold 4 x D (R20) batteries with outputs at 1.5, 3, 4.5 and 6V. Batteries and leads not supplied. Each output has a 4mm socket. Manufactured in the UK from premium strong perspex.

Manufactured in the UK

ESL57899



Battery Holder

Size: Overall: 175 x 62mm, thickness 10mm for D size battery

Material: Brass and plastic

Positive and negative given plate attached to plastic base with bolts and given alligator clip, each battery with nuts and bolts of the base

ESL57901

Cell holder

Cell-holder Made of unbreakable plastic to hold battery, curved sides help prevent battery from falling out when it is upside down.

ESL57903 Single For 'D' Size Battery

ESL57904 Double For 'D' Size Battery

ESL57905 Double For 'AA' Size Battery

ESL57906 Single For 'AA Size Battery

ESL57907 Stackable



Mini Motor DC

This little yet powerful motor is idea for hundreds of electrical experiments and projects. Voltage requirements are 1.5V ~ 4.5V, 0.2A ,DC volts.

ESP59128 Power requirements: 1.5V ~ 4.5V, 0.2A

ESP59129 Power requirements: 3V ~ 6V, 0.2A ESP59130 Power requirements: 6V ~ 12V, 0.2A



De-soldering Pump

High sucking power, plastic body with sturdy metal rod, easy to clean and maintain.

ESP59606



Soldering Iron

With wooden / Bakelite handle, lightweight body, element tested for high insulation, with long life

ESP59601 25 Watts ESP59602 65 Watts ESP59603 125 Watts



Soldering Iron Stand Soldering iron with stand



Copper Wire

Bare copper wire roll - measured by mass, lengths

Includes: 1 Spool

ESL57928	500g roll - 14 SWG (12 AWG) - 0.08"" (2.0 mm) Dia. Approximate length is 50 ft.
ESL57929	500g roll, 16 SWG (14 AWG) - 0.064"" (1.6 mm) Dia. Approximate length is 85 ft.
ESL57930	250g roll, 18 SWG (16/17 AWG) - 0.048"" (1.2 mm) Dia. Approximate length is 80 ft.
ESL57931	250g roll, 20 SWG (19 AWG) - 0.036"" (0.91 mm) Dia. Approximate length is 140 ft.
ESL57932	250g roll, 22 SWG (21 AWG) - 0.028"" (0.71 mm) Dia. Approximate length is 225 ft.
ESL57933	250g roll, 24 SWG (23/24 AWG) - 0.022"" (0.56 mm) Dia. Approximate length is 375 ft.
ESL57934	250g roll, 26 SWG (24/25 AWG) - 0.018"" (0.46 mm) Dia. Approximate length is 550 ft.
ESL57935	250g roll, 28 SWG (29/30 AWG) - 0.0148"" (0.38 mm) Dia. Approximate length is 800 ft.
ESL57936	$250g\ roll$, 30 SWG (32/33 AWG) - 0.0124 $^{\prime\prime\prime\prime}$ (0.32 mm) Dia. Approximate length is 1150 ft.
ESL57937	250g roll , 32 SWG (33/34 AWG) - 0.0108"" (0.27 mm) Dia. Approximate length is 1500 ft.



Chromium Resistance

This is chromium wire that can be used in many applications in the classroom or lab. It's functional characteristics are the same as nichrome wire. It's makeup is 15% Cr, 4% Al, Balance Fe. Maximum operating temperature is 1150°C. Density is 6.74g/cm^3

Many industrial and hobby hot wire foam cutters also use chromium wire. Chromium wire is also commonly used in ceramics, as an internal support structure to help some elements of clay sculptures hold their shape while they are still soft. Chromium wire is used because of its ability to withstand the high temperatures.

```
ESL57944 18 GAUGE SWG - 16/17 AWG - 0.048" DIA. Includes: (1) 125g Roll 20 GAUGE SWG - 19 AWG - 0.036" DIA. Includes: (1) 125g Roll 22 GAUGE SWG - 21 AWG - 0.028" DIA. Includes: (1) 125g Roll 24 GAUGE SWG - 23/24 AWG - 0.022" DIA.. Includes: (1) 125g Roll 25L57946 26 GAUGE SWG - 24/25 AWG - 0.018" DIA. Includes: (1) 125g Roll 28 GAUGE SWG - 29/30 AWG - 0.018" DIA. Includes: (1) 125g Roll 28 GAUGE SWG - 32/33 AWG - 0.0124" DIA. Includes: (1) 125g Roll 25L57949 30 GAUGE SWG - 32/33 AWG - 0.0124" DIA. Includes: (1) 125g Roll 25L57950 32 GAUGE SWG - 33/34 AWG - 0.0108" DIA. Includes: (1) 125g Roll
```



Eureka Constantan Wire

Useful for resistance coils. Wire of copper-nickel allow low having temperature coefficient. Mass (per reel): 125g

ESL57938	REEL , SWG 34 (33/34 AWG) -
ESL57939	REEL , SWG 36 (33/34 AWG) -
ESL58031	REEL , SWG 14 (12 AWG) - 0.08" (2.0 MM) DIA.
ESL58032	REEL , SWG 16 (14 AWG) - 0.064" (1.6 MM) DIA.
ESL58033	REEL , SWG 18 (16/17 AWG) - 0.048" (1.2 MM) DIA.
ESL58034	REEL , SWG 20 (19 AWG) - 0.036" (0.91 MM) DIA.
ESL58035	REEL , SWG 22 (21 AWG) - 0.028" (0.71 MM) DIA.
ESL58036	REEL , SWG 24 (23/24 AWG) - 0.022" (0.56 MM) DIA.
ESL58037	REEL , SWG 26 (24/25 AWG) - 0.018" (0.46 MM) DIA.
ESL58038	REEL , SWG 28 (29/30 AWG) - 0.0148" (0.38 MM) DIA
ESL58039	REEL , SWG 30 (32/33 AWG) - 0.0124" (0.32 MM) DIA.
ESL58040	REEL , SWG 32 (33/34 AWG) - 0.0108" (0.27 MM) DIA.
ESL58041	REEL , SWG 34 (33/34 AWG) -
ESL58042	REEL , SWG 36 (33/34 AWG) -









Crocodile Clip With Plastic Sleeved Red Pk/10

Spring-loaded, serrated jaws, with screw to clamp end of lead held in tubular extension, both sides insulated. Length 50 mm and jaws open 9 mm, Black Colour

ESL57957	Black
ESL57956	Red



Wire PVC Coated Reel (MS)

Multi-strand copper wire, flexible PVC insulated, capable of carrying current up to 5A. Supplied in rolls of 10m

ESL58029



Banana Plugs With wire

4mm Stackable Plug Lead

	_
With wire	
ESL57914	Length 50 cm , Red
ESL57915	Length 50 cm , Black
ESL57916	Length 25 cm , Red
ESL57917	Length 25 cm , Black
ESL57918	Length 75 cm , Red
ESL57919	Length 75 cm , Black
ESL57920	Length 100 cm , Red
ESL57921	Length 100 cm , Black

Banana Plugs 4mm Stackable Plug Lead





Safety Socket For Banana Plugs

Safety socket 4mm for Banana plugs in improved design.

ESL57910	Black
ESL57911	Fdc
ESL57912	Yellow
ESL57913	Green



Crocodile Clip Pk/10

Crocodile clip without sleeve Pk/10 ESL57955



Connecting Wire With 2 Side Crocodile clips

ESL57958/RED	Wire W/2 Side Crocodile clips 25 Cm Red
ESL57958/BLK	Wire W/2 Side Crocodile clips 25 Cm Black
ESL57959/RED	Wire W/2 Side Crocodile clips 50 Cm Red
ESL57959/BLK	Wire W/2 Side Crocodile clips 50 Cm Black
ESL57960/RED	Wire W/2 Side Crocodile clips 100 Cm Red
ESL57960/BLK	Wire W/2 Side Crocodile clips 100 Cm Black

Connecting Wire With 1 Side 4mm Lead & 1 Side Crocodile clip

ESL57968/RED	Wire 1Side Lead 1 Side Crocodile clip , Cable length 25 cm Red
ESL57968/BLK	Wire 1Side Lead 1 Side Crocodile clip , Cable length 25 cm Black
ESL57969/RED	Wire 1Side Lead 1 Side Crocodile clip , Cable length 50 cm Red
ESL57969/BLK	Wire 1Side Lead 1 Side Crocodile clip p , Cable length 50 cm Black
ESL57970/RED	Wire 1Side Lead 1 Side Crocodile clip , Cable length 100 cm Red
ESL57970/BLK	Wire 1Side Lead 1 Side Crocodile clip $% \left(1\right) =1$, Cable length 100 cm Black



Lead Acid Accumulator

Battery storage, in transparent case, without acid, uncharged fitted with handle.

Capacity 20 AH. Item measures 6.5" tall, 3.5" wide and 2.75" long. **Battery Storage**

Transparent case, printed with product specifications Includes removable fitted handle

Negative and positive marked terminal

ESL57994

ESL57898



Battery Eliminator DC 0-6 V, 1 A

A low cost alternative to dry cell batteries. Housed in a robust ABS plastic case (IPC-0577-P). Ideally suited as a replacement in applications where batteries are normally used. Smoothed and regulated DC is available over those ranges selected by rotary switch. Output is via 4mm red and black sockets. The DC output voltage available are 1.5, 3, 4.5 and 6VDC at a maximum current of 1A.

Electrical Supply: 220-240VAC, 50-60Hz Dimensions: 150 x 100 x 80mm overall

Mass: 0.85kg

DC Output Voltage Range: 1.5, 3, 4.5 and 6VDC

Maximum DC Output Current: 1A

FSP60841



Battery UV Unit

Battery powered Ultra Violet light source ideally suited to demonstration use. Comes complete with on/off switch. Requires 4 x AA batteries (not

Dimensions (L x H x W): 165 x 35 x 41mm.



Sandpaper Pack of 10 sheets

(sheet size in 230mm x 280mm) (grit 800)

ESL57455



Felt Tipped Pens PK/12 Versatile Felt Tipped Pens PK/12

ESL57871







Smart materials handling kit

The smart materials handling case offers a diverse range of innovative materials, making it an excellent choice for presentations or demonstrations. It includes a smart materials book along with essential accessories for material manipulation. The case dimensions are 46 x 33 x 15cm.

Contained within the case are:

Thermally responsive materials such as thermochromics pigment, thermo film, thermal paper (fax), phase change powder, and thermo cord.

Smart alloys and polymers, including shape memory polymer, smart putty, rare earth magnet, shape memory wire, memory wire, 2-way memory spring, conductive polymer, and smart link tubing.

Optically responsive materials and LEDs like glow-in-the-dark film, optical fiber, UV fluid, UV beads, LEDs, smart film, and lenticular film.

Fibers and woven materials such as cocoons, Kevlar fabric, carbon

fiber fabric, ripstop nylon, silk, Lycra, genuine carbon fiber sheet, and electrotextile.

Special polymers including polymorph, hydrogel, expanse, chromatic alginate, and Eco film.

'Nano' materials and others like QTC pills, chameleon nano flakes, piezo transducer, and mirror film.



Water Bath Laboratory 20L Digital Features:

20 liter heating capacity

can easily maintain a stable internal temperature

Up to +100° C temps, shown on an LED display

Overheating protection

High temp accuracy and adjustment with a PID controller

The water bath has a high temp and corrosion resistant lid, made of 304 stainless steel

Unit has a dedicated internal magnetic circulation pump which allows it to distribute the heat evenly and prevent any water from leaking

Even temperature spreading helps to avoid any bumping phenomenon while machine is used level warning

Rapid heating, the temperature remains constant after reaching the set temperature High temperature accuracy with overheating protection

High temperature resistant and corrosion free lid made up of 304 stainless steel Electronic components are easy to disassemble. Safe and easy to maintain

ESL58218



Specifications

Display	LED	Dimension[mm]	667x349x357
Temperature range [°C]	Room temp.+5-80	Housing	Q235 Plastic panel
Temperature stability at 37°C[°C]	±0.5	Parts touch water (including lid)	Stainless steel
Temperature accuracy at 37°C[°C]	±0.3	Weight[kg]	16.2
Bath volume [L]	20	Voltage[V]	220V, 50/60Hz
Circulating pump	No	Heating power[W]	1000
Overheating protection	yes	Ambient temperature[°C]	+10-40
Temperature sensor	PT1000	Ambient humidity[% RH]	<80



Water Bath 100 °C - 16 Tubes

Display, setting, and regulation precision Supplied with its stainless steel rack 16 tubes Heats up and maintains the temperature up to 100

Features:

Tank: Transparent with minimal temperature level

Stability: ±1°C

Homogeneity: ±1°C

Setting: Setting of the set temperature by push button within 1°C accuracy up to 100°C

Heating: by W resistance with regulation at $\pm 1^{\circ}$ C

Power: 600 W

Transparent tank with holes for 16 test tubes Ø 18 mm - Maximum heating temperature $\geq 80^{\circ}\text{C}$ - Bath temperature probe - Display of set temperature and actual bath temperature on digital screen - Tube rack and bottom plate provided - Rectangular shape allowing for stacking of water baths for easy storage - Safety device in case of overheating or lack of water - Fuse protection - Tanks and resistances protected to prevent burns - Power switch - Power cable provided





Water Bath Thermostatic Digital

Digital baths are designed for general use and are economically priced without compromising quality. Simple digital controller for setting temperature in 1°C increments. Designed for immersion of flasks, bottles and racks in a highly stable temperature environment. Available in 4, 14 and 22 litre options.

High quality build and features

Comprising of a high quality corrosion resistant stainless steel tank, with a bright clean finish housed in a durable painted outer case. Painted surfaces feature antibacterial finish with good chemical resistance. Fitted with side lifting handles for easy lifting.

High quality build and features Comprising of a high quality corrosion resistant stainless steel tank, with a bright clean finish housed in a durable painted outer case. Painted surfaces feature antibacterial finish with good chemical resistance. Fitted with side lifting handles for easy lifting.

Controls and safety

Temperatures can be easily and rapidly set with the push button, wipe clean control panel in 1°C increments. Temperature setting is retained in memory, even after 'power off'. Water baths are pre-calibrated for consistent accuracy. Thermal cut out fitted in the heater. IP rated, illuminated on/off power switch and heater indication lamp. Bath fitted with non-slip rubber feet.

Temperature

Display/resolution: Digital LED/1°C Temp. Range: Ambient + 5°C - 99°C Temp. Setting: Push button Stability/uniformity: ± 0.2 °C/ ± 0.1 °C

Temperature memory: Retained in memory even after 'power off.'

ESL58188	Capacity: 4 Ltr	Dimensions External: 332w x 185d x 290h mm Internal: 300w x 150d x 150h mm
ESL58189	Capacity: 14 Ltr	Dimensions External: 361w x 332d x 290h mm Internal: 325w x 300d x 150h mm Water level maximum: 130mm shelf fitted working depth 115mm
ESL58190	Capacity: 22 Ltr	Dimensions External: 538w x 332d x 290h mm Internal: 500w x 300d x 150h mm Water level maximum: 130mm shelf fitted working depth 115mm

All models have 3 year warranty Complete with perforated shelf for even heat distribution Side lifting handles UK manufactured Accessory lids, racks and baskets available





Water Bath Thermostatic Unstirred Digital

Clifton digital baths provide a stable temperature environment ideal for meeting quality control requirements, featuring PID temperature control for precision.

Designed for immersion of flasks, bottles and racks for a wide variety of laboratory applications.

High quality build and features

Comprising of a high quality corrosion resistant stainless steel tank, with a bright clean finish housed in a durable painted outer case. Painted surfaces feature antibacterial finish with good chemical resistance. Fitted with side lifting handles for easy lifting.

Heaters and temperature sensor are concealed under the tank providing a clutter free working area which is easy to wipe clean. Supplied with a removable sturdy low height stainless steel perforated shelf, for even heat distribution. The shelf provides a deeper volume of water, for standing containers and accessory test tube racks in the bath. Three year warranty and comprehensive customer support. Accessory lids available. Above 60°C it is recommended that to achieve optimum performance the bath should be covered with a lid. Clifton Range®

Controls and safety

Temperatures can be easily and rapidly set with the push button, wipe clean control panel, featuring a bold LED display. The high precision PID temperature controller, ensures that accuracy and repeatability is guaranteed. Temperature is set in increments of 0.1°C and retained in memory, even after 'power off'. Water bath features a thermal safety cut out which is fitted to the heater. There is an over temperature alarm automatically set at 4°C above set temperature, including a visual indicator and safety heating cut out, to protect samples from over heating. Water baths are pre-calibrated at two separate temperatures for consistent accuracy. IP rated, illuminated on/off power switch and heater indication lamp. Bath fitted with non-slip rubber feet.

Temperature

Display / resolution: Digital LED / 0.1°C Temp. Range: Ambient + 5°C - 99°C

Temp. Setting: push button in 0.1°C increments

Stability/uniformity: ± 0.2°C/± 0.1°C

Temperature memory: Retained in memory even after 'power off.'

ESL58192	Capacity: 4 Ltr	Dimensions External: 332w x 185d x 290h mm Capacity Nominal Tank Capacity: 4 Litres	Internal: 300w x 150d x 150h mm Brimful Capacity: 6 litres
ESL58193	Capacity: 8 Ltr	Dimensions External: 332w x 270d x 290h mm Capacity: Nominal Tank Capacity: 8 Litre	Internal: 300w x 240d x 150h mm Brimful Capacity: 10 litres
ESL58194	Capacity: 14 Ltr	Dimensions External: 361w x 332d x 290h mm Capacity Nominal Tank Capacity: 14 Litres	Internal: 325w x 300d x 150h mm
ESL58195	Capacity : 22 Ltr	Dimensions External: 538w x 332d x 290h mm Capacity Nominal Tank Capacity: 22 Litres Drain outlet fitted, large 12mm bore for fast emp	Internal: 500w x 300d x 150h mm

All models have 3 year warranty

Complete with perforated shelf for even heat distribution

Side lifting handles

UK manufactured

Accessory lids, racks and baskets available





Water Bath Thermostatic Unstirred Analogue

Analogue boiling baths are designed for applications that require continuous boiling. This range has the flexibility where the controls can be regulated from a

Gentle simmer to a vigorous boil.

High quality build and features

Comprising of a high quality corrosion resistant stainless steel tank, with a bright clean finish housed in a durable painted outer case. Painted surfaces feature antibacterial finish with good chemical resistance. The bath, which is simmer-statically controlled, is ideally suited to prolonged periods of boiling. Fitted with side lifting handles for easy lifting.

Fitted with a sheathed immersion element and thermal safety cut out. The heater is directly immersed in water providing rapid boiling. Fitted with a constant level device, that maintains a fixed level of liquid which eliminates the need to regularly top up the bath. Three year warranty and comprehensive customer support. Accessory lids available. Above 60°C it is recommended that to achieve optimum performance the bath should be covered with a lid. Deep chamber option (product code: NE1B-18W) can be fitted with an accessory tray to conveniently raise or immerse items in boiling water and is suitable for immersion of tall vessels. Clifton Range®

Controls and safety

Easy to use analogue dial pointer for setting temperature in 10°C increments. The bath can control the amount of boiling from a gentle simmer to a vigorous boil. Thermal cut out fitted in the heater.

Always connect the constant level with laboratory tubing to a water supply, adjust the flow to gently top up the water level, whilst maintaining boiling. IP rated, illuminated on/off power switch and heater indication lamp. Bath fitted with non-slip rubber feet.

Temperature

Temp. Range: Simmer to boiling at 100°C

Temp. Setting: analogue dial pointer

Temp. Control: Energy regulator controls the amount of boiling from a gentle simmer to vigorous boil

ESL58196	Capacity : 14 Ltr	Dimension : s (mm) Overall - 361 w x 332d x 290h / Working - 325 w x 300d x 150h Electrical supply: 230v Power consumption: 2500w
		Dimension : s (mm) Overall - 362w x 332d x 290h / Working - 325w x 300d x 200h Electrical supply: 230v
		Power consumption: 2500w
ESL58197	Capacity: 18 Ltr	Drain outlet: Drain outlet fitted, large 12mm bore for fast emptying
		Deep fill chamber: can be fitted with accessory tray to raise or immerse items into boiling water
		Accessory tray: ST-1 - Raise and lower sterilizing tray.
		SA01409 - Pair of guide rail assemblies for ST1 Tray and NE1B-18W

All models have 3 year warranty Complete with shelf for good water circulation UK manufactured Accessory lids, racks and baskets available





Water Bath Thermostatic

Clifton digital stirred baths provide a stable temperature environment ideal for meeting quality control requirements, featuring PID temperature control for precision. Designed for immersion of flasks, bottles and racks for a wide variety of laboratory applications.

High quality build and features

Comprising of a high quality corrosion resistant stainless steel tank, with a bright clean finish housed in a durable painted outer case. Painted surfaces feature antibacterial finish with good chemical resistance. The thermostirrer is robust and entire casing is constructed from stainless steel for durability.

Supplied with a removable stainless steel shelf, ensuring good water circulation throughout the chamber. Three year warranty and comprehensive customer support. Accessory lids, racks, coolers and shelves available. Above 60°C or below ambient it is recommended that to achieve optimum performance the bath should be covered with a lid. Clifton Range®

Controls and safety

Temperatures can be easily and rapidly set with the push button, wipe clean control panel, featuring a

bold LED display. The high precision PID temperature controller, ensures that accuracy and repeatability is guaranteed. Temperature is set in increments of 0.1°C and retained in memory, even after 'power off'.

When a low liquid level is detected "FILL" message automatically appears on the display and heating is suspended. Once refilled, heating is restored and temperature control resumes automatically. There is an over temperature alarm automatically set at 4°C above set temperature, including a visual indicator to protect samples from over heating.

Water baths are pre-calibrated at two separate temperatures for consistent accuracy. I illuminated on/off power switch and heater indication lamp Bath fitted with non-slip rubber feet.

Temperature

Display / resolution: Digital LED / 0.1°C Temp. range: Ambient + 5°C - 99°C

Ambient to -20°C with accessory immersion dip cooler (DC1-300 or DC2-300)

Temp. setting: push button in 0.1°C increments

Stability/uniformity: ± 0.05°C/± 0.01°C

Temperature memory: Retained in memory even after 'power off.'

Timer: Variable 00:01 to 99.59 hh:mm. Audible alarm and visual 'end' message Safety feature: Low liquid level warning

Dimension :s (mm) Overall - 361w x 332d x 170h / Working - 219w x 298d x 150h ESL58198 Capacity: 14 Ltr Electrical / power supply: 120v or 230v models available/ 1250w

Dimension: s (mm) Overall - 537w x 332d x 240h / Working - 395w x 298d x 200h Capacity: 28 Ltr

ESL58199 Electrical / power supply: 120v or 230v models available / 1250w

All models have 3 year warranty Complete with shelf for good water circulation **UK** manufactured Accessory lids, racks and baskets available





Water Bath Thermostatic Digital Oil Heating Circulator

Clifton® Digital Water and Oil Heating Circulator are designed for external circulation of temperature controlled water and heat transfer fluids in a closed circuit or for maintaining a stable temperature environment in the bath for the immersion of flasks, bottles and racks.

Thermocirculator can be fitted to water baths, tanks and containers using accessory Mount Bracket.

Clifton® Thermostirrer is a durable stainless steel construction, painted surfaces are powder painted with tough anti-bacterial finish with good chemical resistance. Easy to use controls that wipe clean and have an anti-bacterial finish. Immersed components are corrosion resistant. Quiet running in use and providing excellent water temperature stability. Indication of heating, over temperature alarm and timer running.

When a low liquid level is detected a "FiLL" message automatically appears and heating is suspended. Once refilled, heating is restored and temperature control resumes automatically.

Over and under temperature alarms automatically protect work in the water bath, providing heater cut off, visual message and indicator.

A second safety device can be set just above the working temperature, protecting samples.

Thermocirculator pump comes with convenient push-fit and lock fittings on both inlet and outlet ports for secure external liquid circulation.

Controls

Featuring a bold LED display of measured temperatures in real-time and in increments of $\pm 0.1^{\circ}$ C, using a precision PID temperature controller. Setting for water temperature only or combination of temperature and time. Timer setting variable in 1-minute increments from 00:01 [hh:mm] to 99:59 [hh:mm] with "end" message on completion of the timed period. Time and temperature settings are retained in the memory, even after the unit has been turned off.

Easy to use controls, utilising touch keypads for setting time and temperature values with indicators for heating, over temperature alarm and timer.

The heater unit can be set to run at a set temperature or commence the timer once the water reaches set temperature.

Features auto setting over and under temperature alarm protecting your work at set temperature.

Every unit undergoes a factory calibration at two temperatures for validation.

A second safety device can be set just above the working temperature, protecting samples.

ESL58200	Capacity: 14 ltr	" Dimension : s External: 361w x 332d x 170h mm Thermocirculator additional 120mm to bath height Internal: 219w x 298d x 150h mm - working area of the bath Capacity Nominal Tank Capacity: 14 Litres"
ESL58201	Capacity : 22 ltr	" Dimension : s External: 537w x 332d x 170h mm Internal: 395w x 298d x 150h mm
		Capacity Nominal Tank Capacity: 22 Litres"

All models have 3 year warranty Complete with shelf for good water circulation UK manufactured Accessory lids, racks and baskets available





Water Bath Thermostatic 2 Ltr Shallow, Comp. W. S.steel Perforated False Base

Clifton shallow Baths™ are available in digital or analogue option. Their small footprint provides a stable temperature environment for life science preparations. Perfect for heating small height samples such as micro tubes, micro plates and bottles.

High quality build and features

Comprising of a high quality corrosion resistant stainless steel tank, with a bright clean finish housed in a durable painted outer case. Painted surfaces feature antibacterial finish with good chemical resistance. The shallow chamber is perfect for heating smaller samples.

Heaters and temperature sensor are concealed under the tank providing a clutter free working area which is easy to wipe clean. Supplied with a removable sturdy low height stainless steel perforated shelf, for even heat distribution. Three year warranty and comprehensive customer support. Accessory lids available. Above 60° it is recommended that to achieve optimum performance the bath should be covered with a lid. Clifton Range®

Controls and safety

Digital bath option allows temperatures to be easily and rapidly set with the push button, wipe clean control panel, featuring a bold LED display. High precision PID temperature controller that ensures accuracy and repeatability is guaranteed. Temperature setting in increments of 0.1°C and temperature setting retained in memory, even after 'power off'.

Thermostatic bath option has an easy to use analogue dial pointer for setting temperature in 5°C increments.

All Shallow Baths[™] have IP rated, illuminated on/off power switch and heater indication lamp. Features a thermal safety cut out which is fitted to the heater. Digital baths feature an over temperature alarm automatically set at 4°C above set temperate, including a visual indicator and safety heating cut out, to protect samples from over heating. Shallow Bath™ fitted with non-slip rubber feet.

Temperature

Digital

Display / resolution: Digital LED / 0.1°C Temp. Range: Ambient + 5°C - 99°C Temp. Setting: push button

Stability/uniformity: ± 0.2°C/± 0.1°C

Temperature memory: Retained in memory even after 'power off.'

Thermostatic

Temp. Range: Ambient $+ 5^{\circ}\text{C} - 99^{\circ}\text{C}$ Temp. Setting: analogue dial pointer Stability/uniformity: $\pm 0.25^{\circ}\text{C/} \pm 0.1^{\circ}\text{C}$

ESL58202

Capacity: 2 ltr

Dimension :s (mm) Overall - 332w x 185d x 135h / Working - 300w x 150d x 65h

Electrical / power supply: 120v or 230v models available / 200w

All models have 3 year warranty Complete with shelf for good water circulation UK manufactured Accessory lids, racks and baskets available





Water Bath Thermostatic Triple

Clifton analogue Triple-baths™ feature three independently controlled unstirred water baths in one space saving unit. Ideal for heating samples in micro centrifuge tubes and for other molecular biology applications.

High quality build and features

Comprising of 3 high quality corrosion resistant stainless steel tanks, with a bright clean finish housed in a durable painted outer case. Each chamber can be set to a different temperature and used simultaneously. Painted surfaces feature antibacterial finish with good chemical resistance.

Triple 4 litre bath is fitted with side lifting handles for easy lifting. These shallow baths require less water and less process chemicals, so are therefore economical to use.

Heaters and temperature sensors are concealed under the tanks providing a clutter free working area which is easy to wipe clean. Supplied with 3 removable sturdy low height stainless steel perforated shelves, for even heat distribution. Triple-baths^m are available in two sizes, 3 x 2 litre and 3 x 4 litre chambers.

Accessory lids available. Above 60°C it is recommended that to achieve optimum performance the chambers should be covered with a lid. Covering the bath also reduce energy consumption and running costs. Three year warranty and comprehensive customer support.

Controls and safety

Easy to use analogue dial pointer for setting temperature, graduated in 5°C divisions for each tank. With 3 independent controllers, each chamber can be operated separately and simultaneously. The Triple-bath™ includes IP rated, illuminated on/off power switch and heater indication lamp for each tank. Water baths are pre-calibrated for consistent accuracy. Thermal cut out fitted in the heater. Bath fitted with non-slip Rubber feet.

Temperature

ESL58204

Temperature control: Analogue dial pointer - graduated in 5°C divisions Temp. range: Ambient + 5°C - 99°C

Temp. setting: Turn dial pointer Stability/uniformity: ± 0.5 °C/ ± 0.5 °C

Dimension: s External: 535w x 332h x 135h mm

ESL58203 Capacity: 2 Ltr Internal: 300w x 150d x 65h mm

Capacity Nominal Tank Capacity: Triple bath tanks, 2 Litres each.

Dimension :s External : 535w x 332h x 290h mm Internal: 300w x 150d x 150h mm

Capacity Nominal Tank Capacity: Triple tanks, 4 Litres each

All models have 3 year warranty Complete with shelf for good water circulation UK manufactured Accessory lids, racks and baskets available

Capacity: 4 Ltr





Water Bath Digital Triple-bath

Clifton digital Triple-baths™ feature three independently controlled unstirred water baths in one space saving unit. Ideal for heating samples in micro centrifuge tubes and for other molecular biology applications.

High quality build and features

Comprising of 3 high quality corrosion resistant stainless steel tanks, with a bright clean finish housed in a durable painted outer case. Each chamber can be set to a different temperature and used simultaneously. Painted surfaces feature antibacterial finish with good chemical resistance.

Triple 4 litre bath is fitted with side lifting handles for easy lifting. These shallow baths require less water and less process chemicals, so are therefore economical to use.

Heaters and temperature sensors are concealed under the tanks providing a clutter free working area which is easy to wipe clean. Supplied with 3 removable sturdy low height stainless steel perforated shelves, for even heat distribution. Triple baths^{max} are available in two sizes, 3 x 2 litre and 3 x 4 litre chambers.

Accessory lids available. Above 60°C it is recommended that to achieve optimum performance the chambers should be covered with a lid. Covering the bath also reduce energy consumption and running costs. Three year warranty and comprehensive customer support.

Controls and safety

Temperatures can be easily and rapidly set with the push button, wipe clean control panel. Temperature displayed clearly with bright LED display in 1°C increments. Temperature setting is retained in memory, even after 'power off.' With 3 independent controllers, each chamber can be operated separately and simultaneously.

The Triple-bath™ includes IP rated, illuminated on/off power switch and heater indication lamp for each tank.

Water baths are pre-calibrated at two separate temperatures for consistent accuracy. Thermal cut out fitted in the heater. Bath fitted with non-slip rubber feet.

Temperature

Display/resolution: Digital LED/1°C Temp. Range: Ambient + 5°C - 99°C Temp. Setting: Push button

Stability/uniformity: ± 0.25°C/± 0.1°C
Temperature memory: Retained in memory even after 'power off.'

ESL58205	Capacity : 2 ltr	Dimension : S External: 535w x 332h x 135h mm Internal: 300w x 150d x 65h mm Capacity Nominal Tank Capacity: Triple tanks, 2 Litres each
ESL58206	Capacity: 4 ltr	Dimension : s External: 535w x 332h x 290h mm Internal: 300w x 150d x 150h mm Capacity Nominal Tank Capacity: Triple tanks, 4 Litres each

All models have 3 year warranty Complete with shelf for good water circulation UK manufactured Accessory lids, racks and baskets available





Hinged Lid Assymoulded Lid New Style Clear Plastic

Hinged lid assymoulded lid new style clear plastic

ESL58209



Stainless Steel Gabled Lid

Stainless steel gabled lid

ESL58210

Test Tube Rack Stainless Steel 18 X 19mm

Test tube rack stainless steel 18 x 19mm

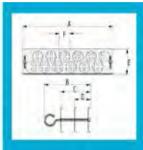
ESL58211

Test Tube Rack Stainless Steel 12 X 32mm

Test tube rack stainless steel 12 x 32mm

ESL58212







Water bath Irwin school

The Irwin water bath specifically designed for School Science Departments. It is built around a Gratnells deep tray and so can be stored in a Gratnells trolley. Water capacity is from 2 to 8 litres. Because of the shallow profile of the heating element, 3 litres of water gives the equivalent depth to 8 litres in a EduScience Bath, thus it reaches temperature much faster. Digital temperature control will maintain the water temperature within 1 degree Centigrade Separate temperature sensor which can control the whole bath or an individual test tube 500W silicone heating element Particularly suitable for hard water areas as the element may be easily removed and cleaned Gives additional bench space in the prep room. Light and easy to carry with safety cut-out sensor.

Even temperature distribution no stirrer required Student proof temperature lock Large capacity will take up to 4 test tube racks Cost effective and practical solution for all your water bath needs Comes complete with a lid and Z type test tube rack

 $\label{lem:continuous} Available\ in\ either\ 60\ degrees\ centigrade\ or\ 100\ degrees\ Centigrade\ options.$

ESL58207 60 degrees C **ESL58208** 100 degrees C



Ultrasonic Bath

- Frequency: 53KHz, Heating: No, Degas: Yes, Timer (minute): 1-99, Housing: SUS304,
- Drain : No, Stainless steel cover: Yes
- Ultrasonic power(W): 100, Heating power(W): No, Degas power(W): 100,

ESL58245	Capacity: 3 Ltr	Tank size (LxWxD) cm : 24x14x10 Overall size (LxWxD) cm : 27x16x24 Tank capacity (litre): 3	
ESL58246	Capacity: 6 Ltr	Tank size (LxWxD) cm : 30x15x15 Overall size (LxWxD) cm : 33x18x29 Tank capacity (litre): 6	





Water Bath Ultrasonic, Thermostatic Heated And Timed, Ultrasonic -230V

Clifton industrial strength ultrasonic baths are designed for demanding applications and suitable for continuous operation. Featuring heating and timer controls with ultrasonic boost, degas and sweep functions. Ideal for cleaning delicate or fragile components and glassware, especially where there may be a risk of breakage as a result of manual cleaning.

High quality build and features

High quality stainless steel tank and construction for durability. Fitted with side lifting handles for easy lifting. Featuring ultrasonics with sweep function for perfect and even distribution of ultrasonic activity. Features an ultrasonic boost function for 25% more power. The auto-degassing function is useful for liquid changes in the tank, de-carbonating and degassing HPLC solutions.

Three year warranty and comprehensive customer support. Accessory lids available. It is recommended that to achieve consistent heating, minimise evaporation and to prevent contamination when ultrasonic bath is not in use, it should be covered with a lid. Clifton Range®

Controls and safety

Temperature, time and activating sonic can be easily and rapidly set with the push button, wipe clean

Control panel, featuring an illuminated bold display. Splash proof controls with a drip bar above control panel, guides spills and drips away from the easy to use temperature and timer dials.

Touch keypads for boost, sweep, degas with start/stop and on/off functions. Temperature is set with analogue dial in increments of 5°C, time values in 1 minute increments with indication of time remaining as well as a permanent 'on' function. Bath will switch off after 12 hours if no keys have been activated, to prevent unintended operation.

Heating elements are controlled electronically to reduce energy demand and prevent overheating if allowed to run dry. Illuminated on/off power switch. Bath fitted with non-slip rubber feet. This range is designed for intermittent and permanent 'on' use. Do not allow items to touch base of the tank, we recommend accessory baskets.

Temperature

Display / resolution : Digital LED / 0.1°C

Temp. Range: 30°C - 80°C

Temp. Setting: Analogue dial pointer in increments of 5°C

Timer: Time setting 1 minute with indication of time remaining or permanent 'on' function.

ESL58242	Capacity : 1 ltr	Dimension : s (mm) Overall - 200w x 100d x 180h / Working - 190w x 85d x 60h Electrical / power supply: 120v or 230v models available / 60w Ultrasonic effective output: 30w Ultrasonic peak power / frequency: 240w / 38kHz Accessory basket: BSK-1	
ESL58244	Capacity: 12 ltr	Dimension : s (mm) Overall - 365w x 278d x 321h / Working - 300w x 240d x 200h Electrical / power supply: 120v or 230v models available / 800w Ultrasonic effective output: 200w Ultrasonic peak power / frequency: 800w / 38kHz Accessory basket: BSK-12	

All models have 3 year warranty Complete with shelf for good water circulation UK manufactured Accessory lids, racks and baskets available





Drying Cabinets

Fitted with toughened glass doors.

Extras: Can be fitted with an interior fan and dial thermostat control for faster and safer drying Ideal for keeping products dry or testing electronic assemblies

SKU	Capacity Litres	Shelves Supplied	External H x W x D (mm)	Internal H x W x D (mm)
ESL58255	113	2	545 x 730 x 360	460 x 728 x 341
ESL58256	226	3	652 x 928 x 449	567 x 926 x 430
ESL58257	300	3	965 x 583 x 610	865 x 581 x 600
ESL58258	540	3	1650 x 583 x 610	1550 x 581 x 600
ESL58259	1000	4	1650 x 1110 x 585	1550 x 1108 x 580
ESL58260	1300	4	1650 x 1110 x 765	1550 x 1108 x 757

Ovens Drying Moisture Extraction

The forced air extractor is a bolt-on unit and can be retro-fitted to our other ovens if required. (OPTIONAL EXTRA).

Standard Specifications: Temperature range 40°C to 250°C - Dial thermostat (HYD)

Stainless steel interior - Fan assisted circulation* - Output vent for extraction tubing

Overheat safety with warning indicator - Fan assisted extract unit

Options Include: Digital control and readout (DIG) - Maximum temperature limiter

Programmable timers and controllers - Adjustable shelf ladders - 110v supply

SKU	Litres	Shelf Position	No of Shelve	External (mm) HxWxD	Internal (mm) HxWxD	Max Load Height (mm)	Power watts
ESL58262/50	50	3	2	625 x 590 x 422	325 x 490 x 315	240	1000
ESL58262/52*	52	5	5	845 x 590 x 300	470 x 490 x 193	385	1000
ESL58262/75	75	3	2	625 x 590 x 567	333 x 490 x 460	248	1250
ESL58262/100	100	4	3	735 x 590 x 567	445 x 490 x 460	360	1250
ESL58262/120	120	4	3	735 x 590 x 659	445 x 490 x 552	360	1500
ESL58262/150	150	5	3	845 x 590 x 659	555 x 490 x 552	470	1500
ESL58262/180	180	6	4	957 x 590 x 659	667 x 490 x 552	582	1750
ESL58262/210	210	6	4	957 x 590 x 749	667 x 490 x 642	582	2000
ESL58262/240	240	8	4	1178 x 590 x 659	888 x 490 x 552	803	2250
ESL58262/280	280	6	4	941 x 750 x 769	651 x 650 x 662	566	2250
ESL58262/350	350	7	4	1104 x 750 x 769	814 x 650 x 662	729	2500







Ovens Incubators Dual Purpose

Manufactured with economy and a dual function in mind. These units are ideally suited to laboratories requiring an incubator and an oven in one convenient cabinet. These can be used as a general purpose incubator, yet at the flick of a switch can be used as either a 250°Coven or sterilizer making it the obvious cost-effective solution for many laboratories.

SKU	Litres	Shelve & Position	External mm H xWx D	Internal (mm) H x W x D	Max Load Height (mm)	Power watts
ESL58265/30	30	2/3	570 x 415 x 422	305 X 315 X 315	220	700
ESL58265/40	40	2/3	670 x 415 x 422	404 X 315 X 315	320	700
ESL58265/50	50	2/3	615 x 590 x 422	325 X 490 X 315	240	1000
ESL58265/75	75	2/3	623 x 590 x 567	333 X 490 X 460	248	1000
ESL58265/100	100	3/4	735 x 590 x 567	445 X 490 X 460	360	1000
ESL58265/120	120	3/4	735 x 590 x 659	445 X 490 X 552	360	1500
ESL58265/150	150	3/5	845 x 590 x 659	555 X 490 X 552	470	1500
ESL58265/180	180	4/6	957 x 590 x 659	667 X 490 X 552	582	1500
ESL58265/210	210	4/6	957 x 590 x 749	667 X 490 X 642	582	2000
ESL58265/240	240	4/8	1178 x 590 x 659	888 X 490 X 552	803	2000
ESL58265/280	280	4/6	941 x 750 x 769	651 X 650 X 662	566	2000
ESL58265/350	350	4/7	1104 x 750 x 769	814 X 650 X 662	729	2500



Oven General Purpose

Suit most laboratory applications including drying, heating and general use.

Temperature Range: 40 C to 250 °C

Fluctuation: typically /-1 ° c

Exterior: Easy clean powder coated body

Interior: Aluminium clad steel chamber as standard (Stainless steel also available)

Controls: Calibrated dial thermostat

Safety: Independent overheat safety thermostat

Warranty: Full UK 1 year parts labour

Circulation: Internal forced air.

CE compliant.



ESL58268	Capacity: 10 LTR	Shelf positions:1, No. Of shelves: 1, External dimension (HxWxD): 415x375x350mm, Internal dimension (HxWxD): 150x275x243mm, Max load height: 105mm, Power: 350watts
ESL58269	Capacity: 20 LTR	Shelf positions: 2, No. Of shelves: 2, External dimension (HxWxD): 540x375x382mm, Internal dimension (HxWxD): 275x275x275mm, Max load height: 190mm, Power: 500 watts
ESL58270	Capacity: 30 LTR	Shelf positions: 3, No. Of shelves: 2, External dimension (HxWxD): 570x415x422mm, Internal dimension (HxWxD): 305x315x315mm, Max load height: 220mm, Power: 750 watts
ESL58271	Capacity: 40 LTR	Shelf positions: 3, No. Of shelves: 2, External dimension (HxWxD): 670x415x422, Internal dimension (HxWxD): 404x315x315, Max load height: 320mm, Power: 1000 watts
ESL58272	Capacity: 50 LTR	Shelf positions: 3, No. Of shelves: 2, External dimension (HxWxD): 625x590x422 mm, Internal dimension (HxWxD): 325x490x315 mm, Max load height: 240mm, Power: 1000 watts
ESL58273	Capacity: 75 LTR	Shelf positions: 3, No. Of shelves: 2, External dimension (HxWxD): 625 x 590 x 567mm, Internal dimension (HxWxD): 333x490x460mm, Max load height: 248mm, Power: 1250watts
ESL58274	Capacity: 100 LTR	Shelf positions: 4, No. Of shelves: 3, External dimension (HxWxD): 735x590x567mm, Internal dimension (HxWxD): 445x490x460mm, Max load height: 360mm, Power: 1250watts
ESL58275	Capacity: 120 LTR	Shelf positions: 4, No. Of shelves: 3 , External dimension (HxWxD): 735x560x659mm, Internal dimension (HxWxD): 445x490x552mm, Max load height: 360mm, Power: 1500watts
ESL58276	Capacity: 150 LT R	Shelf positions: 4, No. Of shelves: 3, Power: 1500watts



Vacuum Oven Models Features

- Uses for drying moisture, condensing
- Dearing, solvent removal.
- Glass door in front, showing indoor.
- Digital PID Controller.
- Auto Tuning.
- Reliable safety device.
- Simple-to-use.

- Connects nitrogen gas with Purge Valve (Option).
- 10step Programmable
- Controller (Option).

ES-1202V5

Model		ES-1202V5	ES-1202V6
Dimension	(IN)	300 x 300 x 300(H) mm	400 x 400 x 400(H) mm
	(OUT)	500 x 450 x 450(H) mm	600 x 550 x 550(H) mm
Capacity		27 Liter	64 Liter
Power		220V, 3.2A, 60Hz	220V, 4A, 60HZ
Specification			
Temp. Range		Ambient +5°C to 200°C	
Temp. Controller		Digital P.I.D. controller	
PID Setting		Auto Tuning.	
Display		LED display	
Material	(IN)	Stainless steel	
Material	(OUT)	Steel plate with powder of	coating
Valve		Vacuum valve, Purge val	ve
Vacuum gauge		Mechanical type	
Door		Silicone packing door wit	h Large window
Shelves		AL material, 2EA	
Safety device		Exclusive over temp. prof	tector, Power Breaker

Vacuun Pump w2v20

Cold Trap V5-60



Incubators General Purpose

Suit most laboratory applications including drying, curing, and general use.

Temperature Range: Ambient 10 C to 100 ° C

Fluctuation: typically /-0.75 ° C

Exterior: Easy clean powder coated body

Interior: Aluminium clad steel chamber as standard (Stainless steel also available)

Controls: Calibrated dial thermostat

Safety: Independent overheat safety thermostat

Warranty: Full UK 1 year parts & labour

CE compliant.

ESL58295	Capacity: 10 LTR	Shelf positions: 1, No. Of shelves: 1, External dimension (HxWxD): 415x375x350mm, Internal dimension (HxWxD): 150x275x243mm, Max load height: 105mm, Power: 250watts
ESL58296	Capacity: 20 LTR	Shelf positions: 2, No. Of shelves: 2, External dimension (HxWxD): 540x375x382mm, Internal dimension (HxWxD): 275x275x275mm, Max load height: 190mm, Power: 350watts
ESL58297	Capacity: 30 LTR	Shelf positions: 3, No. Of shelves: 2, External dimension (HxWxD): 570x415x422mm, Internal dimension (HxWxD): 305x315x315mm, Max load height: 220mm, Power: 500 watts
ESL58298	Capacity: 40 LTR	Shelf positions: 3, No. Of shelves: 2, External dimension (HxWxD): 670x415x422mm, Internal dimension (HxWxD): 404x315x315mm, Max load height: 320mm, Power: 500 watts
ESL58299	Capacity: 50 LTR	Shelf positions: 3, No. Of shelves: 2, External dimension (HxWxD): 615x590x422mm, Internal dimension (HxWxD): 325x490x315mm, Max load height: 240mm, Power: 500 watts
ESL58300	Capacity: 75 LTR	Shelf positions: 3, No. Of shelves: 2, External dimension (HxWxD): 623x590x567mm, Internal dimension (HxWxD): 333x490x460mm, Max load height: 248mm, Power: 750 watts
ESL58301	Capacity: 100 LTR	Shelf positions: 4, No. Of shelves: 3, External dimension (HxWxD): 735x590x567mm, Internal dimension (HxWxD): 445x490x460mm, Max load height: 360mm, Power: 750 watts
ESL58302	Capacity: 120 LTR	Shelf positions: 4 , No of shelves: 3, External Dimension (HxWxD): 735x590x659mm, Internal Dimension (HxWxD): 445x490x552mm, Max load height: 360mm, Power: 1500 watts
ESL58303	Capacity: 150 LT R	Shelf positions: 4, No of shelves: 3, Max load height: 360mm, Power: 1500 watts,

Incubator Compact

1-Series Compact Economic Incubator is suitable for personal, small food laboratory or HACCP Industry doing daily incubation of bacterial screening with Petri-Dish or Petri-Film.

ESL-10T / ESL-30T

Incubator Compact

Heating	Gravity Convection (ESL-10T) 10 Ltr.
	Forced Convection (ESL-30T) 30 Ltr
Temp. Range	ambient +5°C -50°C
Accuracy	+- 0.2 °C at 37.0°C (ESL-10T)
Uniformity	+-0.5 °C at 37.0°C (ESL-10T)
Control	Microprocessor PID Control
	Auto START/STOP Timer
Sensor	Class A Pt-100 & Sensor
Safety	Over-Temperature Cut-Off
	Over Current Cut-Off
Material	Body: Epoxy Powder Coated Steel
	Chamber: Stainless Steel 304 Inner
	Glass Door (ESL-30T only)
	Including PVC Coated Wire Shelf
Electric	220± 10% VAC 50/60Hz 1-Phase
Control Accuracy	±0.1 °C Digital PID Controller with automatic
	START/STOP timer max. 99min
	59sec / 99hr 59min / 99 day 23hr
	Temperature calibration, auto-tuning function
	Class A Pt-100 Ω sensor













General Incubator Models:

ESL701GI-ESL702GI-ESL703GI ESL705GI-ESL706GI-ESL707GI

Features

- Digital PID Controller
- Auto tuning function
- Safety devices
- Inner glass door to reduce Temp. change.
- $\bullet \, \mathsf{Easy} \, \mathsf{Temp.} \, \mathsf{setting} \, \, \mathsf{methods.} \, \\$



MODEL		ESL-701-GI	ESL-702-GI	ESL-703GI	ESL-705GI	ESL-706GI	ESL-707GI		
Capacity		49 Liter	91 Liter	150 Liter	250 Liter	91 Liter X 2	91 Liter X 4		
Dimension	(ln)	350 x 400 x 350	450 x 450 x 450	500 x 500 x 600	500 x 500 x 1000	(450 x 450 x 450) x 2	(450 x 450 x 450) x 4		
(WxDxH) (mm)	(Out)	500 x 590 x 720	600 x 640 x 820	650 x 690 x 970	655 x 690 x 1350	610 x 740 x 1480	1220 x 740 x 1480		
Heater Capacity		300W	300W	500W	500W	300W x 2	300W x 4		
Shelves		2EA	2EA	3EA	3EA	4EA	8EA		
Temperature Range		Ambient +5°C to	Ambient +5°C to 60°C						
Accuracy		+/- 0.1°C							
Temperature control		Digital PID Controller							
Timer		99hr 59Min							
Thermocouple		PT 1000 Ω							
Material	(ln)	Stainless steel	cainless steel						
Material	(Out)	Steel plate with powder coating							
Inner door		Safety glass of thickness 5mm							
Shelves		Adjustable Type ABS Coating							
Safety Device		Over temperature, Current protection, Sensor error detection							
Power		220V, 50/60Hz							

W-



CO2 Incubator / CO2, O2 Incubator

ESL-9170CT/9170GCT

Main Control	Touch Screen Controller
Display	7" Color LCD
Temperature Range	RT +5°C to 50°C, ±0.1°C at 37°C
CO2 Range	0 to 20%, ±0.1% at 5%
CO2 Sensor	Dual-Beam Non Dispersive Infra-red Sensor
Humidification	Up to 96% RH at 37°C
Dimension (in)	510(W) × 480 (D) × 705(H)mm
(out)	605(W) × 610(D) x 995(H)mm
Capacity	173 Liter
Water Jacket Volume	34 Liter
Materials (in)	Copper-blended Stainless Steel (SUS 304)
(out)	Steel Plate with Powder Coating
Door	Double, Silicone Magnetic Packing Door
Inner Door	Safety Glass Door with U-groove Packing
Door Heater Shelves	Silicone Heater, Independent Control
Shelves	3EA, Copper-blended Stainless Steel
Safety Device	Over Temp. Protector, Gas Monitor Alarm, Water Level Monitor, Power Breaker
Utility	Semple Port, Access Hole, Drain Port, HEFA Filtre Unit, Flow Meter
Net Weight	98kg
Power	220V, 5A
CO2/02 Incubator	ESL-9170GCT
O2 Range	0.1 to 20.9%, ± 0.1% at 5%
O2 Sensor	Industrial Oxygen Sensor
Cooling System	ESL-9170CT-R (Option)
Dimension (out)	605(W) × 610(D) x 1240(H)mm
Temperature Range	20°C to 50°C, ±0.1°C



Plate of Flask

100ml Flask	36 A
250ml Flask	25 A
500ml Flask	16 A
1000ml Flask	9 EA
2000ml Flask	4 EA
Spring Rack	450 x 450 mm





Shaking Incubator

ESL-8480SR

Less Gas-Consuming & Space-saving compact INCUBATOR

Features

- Noiseless & Brushless DC Motor Durable & Beltless Drum type
- Stable operation in low speed of 10RPM Reliable safety device
- Simple-to-use
- $\bullet \ Compatible \ for \ various \ capacity \ of \ flask \ \& \ tube \ Light \ Bank$

Light Bank Model

Model	VS-8480 SR-L
Light Bank	Compact FL 36W x 3 Unit
Light Control	24Hr. Photoperiod program

Plate of Flask

100ml Flask	60 A
250ml Flask	40 A
500ml Flask	24 A
1000ml Flask	15 EA
2000ml Flask	8 EA
Spring Rack	760 x 470 mm





Shaking Incubator Model

ESL8480SF - ESL8480S

Features

Light Control

- Noiseless & Brushless DC Motor Durable & Beltless Drum type
- Stable operation in low speed of 10RPM Digital PID Controller
- Reliable safety device Simple-to-use
- Compatible for various capacity of flask & tube Light Bank ("-L" Model)

Model		ESL-8480SF	ESL-8480S	
Temp. Range		15C to 60°C	Ambient +5°C to 60°C	
Weight		81Kg	66Kg	
Power		220V, 4.5A, 60Hz 220V, 1.8A, 60Hz		
Temp. Controller	•	Digital P.I.D. controller		
Speed Range		10-350 RPM		
Display		LED Display		
Drive system		Beltless direct drive		
Motor		Brushless D.C.Motor K-type		
Circulation Fan		3.5" convection fan x 2EA		
Dimension	(IN)	510 x 530 x 400(H)mm		
Difficusion	(OUT)	515 x 730 x 720(H)mm		
Lid		Acrylic Blue		
Safety Device		Over temp.Protector, Door detector		
Standard plate		250ml x 25EA		
Light Bank Model		Model ESL-8480SFL		
Light Bank		40W CL x 1 Unit		

24Hr. Photoperiod program



Shaking Incubator ESL-8480SR

Temp. Range		10°C to 60°C	
Temp. Controller		Digital P.I.D. controller	
Speed Range		10-350 RPM	
Display		LED Display	
Drive system		Beltless direct drive	
Motor		Brushless D.C.Motor K-type	
Circulation Fan	ı	5" convection fan x 2EA	
Dimension	(IN)	830 x 540 x 500(H)mm	
Difficusion	(OUT)	1060 x 725 x 895(H)mm	
Lid		Silicone Packing & Shock-absorber	
Safety Device		Over temp. Protector, Door detector	
Weight		137.5 Kg	
Power		220V, 6A, 1.2 Kw, 60Hz	
Standard plate		250ml x 40EA	
Certification		ISO 9001	



Anaerobic Incubator

ESI-A1 Series

- High-precision microcomputer control system to display accurate temperature inside the incubator ESI-A10
- Siemens PLC for High-performance ESI-A11
- High-precision temperature sensor and oxygen sensor to ensure accuracy ESI-A11
- High-precision temperature control module and analog module to ensure stability ESI-A11
- UV sterilizer for effective de-contamination
- Solenoid valve switch control to adjust and input essential gas
- Cultivation and operation chamber made of stainless steel
- Impact-resistant front glass window for easier observation
- Deoxidization catalyst in operation room
- Double door for cultivation chamber to add more petri plates
- · Caster wheels for easier transport
- Latex gloves, Leakage protection, Over-heating alarm for user safety
- LCD screen to view parameter and button press keypad to pre-set values ESI-A10
- LCD screen to view parameter and touch screen control panel ESI-A11



- · 2 shelves and wheels for cultivation chamber
- Tube-light inside the operation chamber for better illumination
- Door handle provided for easier opening and closing
- Wires and pipes inside chamber are properly concealed for user safety
- Equipped with wax-melting disinfection device and inoculating rod sterilizer ESI-A11
- USB interface provided to transfer data ESI-A11
- Stores 6 months data ESI-A11

Anaerobic Incubator

ESI-A10

Anaerobic Incubator ESI-A10 is a workstation especially designed to culture anaerobic micro-organisms for various studies. Features micro-computer control system, UV sterilizer, stainless steel chamber, latex gloves, tough front glass window, de-oxidization catalyst, leakage protection etc. to ensure anaerobic environment while working along with operator's safety. Within 5 min anaerobic environment is created in the cultivation chamber while it takes less than 1 hr. for the operation chamber. It is used in microbiology labs, oil industry, soil research etc.

Anaerobic Incubator

ESI-A11

Anaerobic Incubator ESI-A11 is a workstation especially designed to culture anaerobic micro-organisms for various studies. Features Siemens Programmable Logic Controller, UV sterilizer, stainless steel chamber, latex gloves, tough front glass window, de-oxidization catalyst, leakage protection, USB interface etc. to ensure anaerobic environment while working along with operator's safety. Within 5 min anaerobic environment is created in the cultivation chamber while it takes less than 1 hr. for the operation chamber. It is used in microbiology labs, oil industry, soil research etc.

Applications

It is widely used to culture anaerobic micro-organism to perform various studies in soil research, pathology labs, oil industry etc.

Specifications

SKU	ESI-A10	ESI-A11	
Control System	Microcomputer control system	Microprocessor control system + Siemens PLC	
Display	LCD display with button- press keypad	LCD display with touch screen control panel	
Time for creating anaerobic state in sample chamber	< 5 minutes	< 5 minutes	
Time for creating anaerobic state in operation chamber	< 1hr	< 1hr	
Anaerobic environment maintenance time	> 12hrs (when no supply of mixed gas)	> 12hrs (when no supply of mixed gas)	
Temperature Range	RT+3 to 60°C	RT+3 to 60°C	
Temperature Stability	< ±0.3°C	<±0.3°C	
Temperature Uniformity	< ±1°C	< ±1 °C	
Display Resolution	0.1°C	0.1°C	
Timing Range	1 to 9999 min	1 to 9999 min	
Power Rating	600 W	600 W	
Power Supply	AC 220V, 50 Hz	AC 220 V, 50 Hz	
Data Storage	No	Yes	
Interface		USB	
Interior Chamber Dimension (W×D×H)	300×190×290 mm	300×190×290 mm	
Operation Chamber Dimension (W×D×H)	820×660×670 mm	820×660×670 mm	
Exterior Dimension (W×D×H)	1260×730×1380 mm	1260×730×1380 mm	
Package Dimension (W×D×H)	1390×920×1560 mm	1390×920×1560 mm	
Net Weight	240 kg	240 kg	
Gross Weight	320 kg	320 kg	



Sterilizer Hot Air

Manufactured to conform with the strict requirements of hot air sterilization up to 250°C in life science laboratories.

Uses: Standard disinfection of instruments and applications is not always thorough enough in medicine and biological research. Often high temperature dry sterilization is the only acceptable method of biological cleansing.

Temperature range: 30 $^{\circ}$ C to 250 $^{\circ}$ C

Interior: Stainless steel with fan circulation Timer: 120 minute mechanical run-back timer

Controls: PID digital and readout (DIG) Safety: thermostat with warning indicator

500 C version is available for protein denaturation.

CE compliant.

ESL58324	Capacity: 50 LTR	No of shelves: 2, Shelf positions: 3, External Dimension (HxWxD): 625x590x422mm, Internal Dimension (HxWxD): 325x490x315mm, Max load height: 240mm, Power: 1000 watts.
ESL58325	Capacity: 75 LTR	No of shelves: 2, Shelf positions: 3, External Dimension (HxWxD): 625x590x567mm, Internal Dimension (HxWxD): 333x490x460mm, Max load height: 248mm, Power: 1000 watts.
ESL58326	Capacity: 100 LTR	No of shelves: 3, Shelf positions: 4, External Dimension (HxWxD): 735x590x567mm, Internal Dimension (HxWxD): 445x490x460mm, Max load height: 360mm, Power: 1000 watts
ESL58327	Capacity: 120 LTR	No of shelves: 3, Shelf positions: 4, External Dimension (HxWxD): 735x590x659mm, Internal Dimension (HxWxD): 445x490x552mm, Max load height: 360mm, Power: 1500 watts
ECI E0220	Connector of 1EO LTD	No of shelves: 3, Shelf positions: 4, Power: 1500 watts

Capacity: 150 LTR ESL58328

Model		ESL58478	ESL58479	ESL58480		
Dimension	(ln)	535 x 620 x 430	620 × 710 × 520	620 x 1000 x 1290		
(WXDXH) mm	(Out)	D 260 x 460mm	350 x 510mm	1350 x 800mm		
Capacity		25 Liter	50 Liter	80 Liter		
Heater		2KW	2KW	2.5KW		
Weight		48 kg	65kg	100kg		
Tray Size		190 x 400 x 25mm	240 x 480 x 30mm	240 x 770 x 30mm		
Tray Material		Aluminum				
Reservoir capaci	ty	4.5 Liter	4.5 Liter	8 Liter		
Klaterial	(ln)	Stainless steel	Stainless steel			
Klaterial	(Out)	t) Steel plate with powder coating				
Safety Device		Over ter	Over temp. protector, Safety Valve			
Temp. Range		121 °C				
Pressure Range		0-2.1kgf/ cm				
Strieber		Time 60 Min(Max)				
Control System		8 Bit Microprocessor				
Power		220V, 50/60Hz				



Table Top Autoclave

ESL58478-ESL58479 ESL58480

Features

- Full automation
- LED Display Safety device
- Self-test function
- Exhaustive design's gasket



Autoclave Media

Electrically heated, 12 litre capacity bench top autoclave designed specifically for the safe and effective sterilization of media.

Dual interlocking handles prevent the lid being removed until the vessel has reached a safe pressure and temperature.

- Fully CE marked to the Medical Devices Directive 93/42/EC
- Sterilizes at 121 °C.
- Full one year warranty
- · Maximum capacity liquids 500ml
- · Made in the UK

Dimensions: Height: 420mm ESL58481 12 Litre ESL58482 9 Litre





Electric Burner

able to work without gas -Multiple possibilities for use (heating containers, manual heating of test tubes, complex setups...) Efficient: Heats 100 mL of water from 30 to 100 °C in 2 minutes 30 seconds. - Maximum temperature of 700 °C. - Temperature control through integrated electronic regulator. - Power: 500 W. - Protective casing: Cold - Power supply: 230 V (2P+T). - Weight: 2.6 kg. - - Dimensions (L x W x H): 280 x 180 x 125 mm. - Rod length: 300 mm. - Standard cord length: 1.50m - Patented.

ESL58417



Hot Plate Basic I (Electric Burner) 500 W

Hot plate, electric, with variable stage less regulation of heat and overheat control, 500 W Input supply voltage 230 V / 50 ... 60 Hz

ESL58416

Hot Plat ADV LCD

ESL58420

Specifications	ESL58419		
Work plate Dimension [W x D]	184x184mm (7 inch)		
Work plate material	Glass ceramic		
Heating position	1		
Heating temperature range	Room Temp550°C, increment 5°C		
Control accuracy of work plate	±10°C		
Safety temperature	580°C		
Temperature display	LED		
Temperature display accuracy	±1°C		
External temperature sensor	PT1000 (accuracy $\pm 0.2^{\circ C}$)		
Heating warning	50° C		
Protection class	IP21		
Power	1010W		
Heating Power	1000W		
Voltage,Frequency	100-120/200-240V, 50/60Hz		
Dimension[WxDxH]	215x360x112mm		
Weight	4.5kg		
Permissible Ambient temperature and humidity	5-40°C,80%RH		



Features

- LCD screen shows temperature, Max. temperature up to 500°C
- 10-inch glass ceramic work plate provides excellent chemical-resistant performance and most efficient heat
- External temperature control is possible by connecting the temperature sensor (PT 1000) with an accuracy at ±0.2°C
- The "HOT" warning will flash if the work plate temperature is above 50°C even when the hotplate is turned off
- Heating temperature: room temperature -500°C.
- Data connector : The SD card records the instrument's running data in real time.
- Timing function: the running time of the instrument can

humidity



- Maximum heating temperature is 380 °C High resolution LCD displays actual temperature
- · Aluminum ceramic coating work plate, allowing a immediate heat transfer
- External temperature control is possible with temperature sensor PT1000

Hot Plat Pro

ESL58418

Specifications	ESL58418		
Work Plate Dimensions [WnxsD]	140 X 14mm (6lnch)		
Work plate material	Aluminum cover with ceramic coating		
Heating position	1		
Heating temperature range	Room temp380°C increment 1°C		
Over heat Protection	420°C		
Temperature, time display	LCD		
Temperature display accuracy	±1°C		
External temperature sensor	PT1000(±0.2°C)		
Protection class	IP21		
Power	510W		
Heating output	500W		
Voltage,Frequency	100-120/200-240V, 50/60Hz		
Dimension[WxDxH]	180x320x108mm		
Weight	2.2kg		
Permissible Ambient temperature and humidity	5-40°C, 80%RH		

Hot Plat ADV

humidity

ESL58419

Specifications	ESL58419
Work plate Dimension [W x D]	184x184mm (7 inch)
Work plate material	Glass ceramic
Heating position	1
Heating temperature range	Room Temp550°C, increment 5°C
Control accuracy of work plate	±10°C
Safety temperature	580 °C
Temperature display	LED
Temperature display accuracy	±1°C
External temperature sensor	PT1000 (accuracy±0.2°C)
Heating warning	50°C
Protection class	IP21
Power	1010W
Heating Power	1000W
Voltage, Frequency	100-120/200-240V, 50/60Hz
Dimension[WxDxH]	215x360x112mm
Weight	4.5kg
ermissible Ambient temperature and	5-40°C,80%RH



- LED screen display actual and accurate temperature
- Maximum temperature up to 550 °C
- \bullet Separate safety circuits with safety temperature of 580 °C
- External temperature control is possible by connecting temperature sensor (PT $\,$ 1000) with an accuracy of ± 0.2 $^{\circ}\text{C}$
- Work plate provides excellent chemical- resistant performance and most efficient heat transfer
- "HOT" warning flashes when the workplate temperature is above 50 °C



Magnetic Stirrer Pro LCD

ESL58431

High resolution LCD displays actual stirring speed Brushless DC motor is maintenance free Aluminum covered ceramic coating. corrosion resistant and easy to clean Digital speed control up to 1500rpm Maximum stirring quantity of H2O at 5L

Magnetic Stirrer Basic

ESL58430

Magnetic Stirrer Advance

ESL58432

Speed range of O-150Orpm

Maximum stirring quantity of H2O up to 1OL

Ceramic work plate provides excellent corrosion resistance





Magnetic Stirrer Mini

Suitable for stirring small size items, necessary for all kinds of labs, especially education and R&D institution. ,ABS plastic case, beautiful appearance, stepless speed regulation.

Range $0\sim2300$ R/M(No Load)Max Stirring Capacity 1000m ,stirrer Timing range 0-2300 rpm (empty load) ,

Max. Stirring content 1000ml Face diameter Φ 120mm Other technical parameters Power adapter DC6V **Exterior Dimension :** and weight Φ 120×49mm/500g







Specifications	ESL58432	ESL58430	ESL58431
Work Plate Dimensions [WxD]	184 X 184mm (7 Inch)	Ø135mm (5 Inch)	140 X 140mm (5.6 Inch)
Work plate material	Glass ceramic	Stainless steel cover with ceramic	Aluminum cover with ceramic coating
Motor type	Shaded pole motor	Brushless DC motor	Brushless DC motor
Stirring positions	1	1	1
Max. stirring quantity[H ₂ O]	10L	2OL	5L
Max.magnetic bar[length]	80mm	80mm	40mm
Speed range	0-1500rpm	0-1500rpm	200-1500rpm
Speed display	Scale	Scale	LCD
Protection class	IP21	IP21	IP21
Motor input Power	15W	18W	2.4W
Motor output Power	1.5W	10W	1.8W
Power	30W	30W	10W
Voltage,Frequency	100-120/200-240V, 50/60Hz	100-240V, 50/60Hz	100-240V, 50/60Hz
Dimension[WxDxH]	215x360x112mm	160x280x85mm	320x180x108mm
Weight	3.8kg	2.8kg	2.2kg
Permissible Ambient temperature and humidity	5-40°C, 80%RH	5-40°C, 80%RH	5-40°C, 80%RH



ESL58435



Specifications	ESL58435		
Work Plate Dimensions [WnxsD]	180 X 450 mm		
Work plate material	Stainless steel with silicone coating		
Motor type	Brushless DC motor		
Stirring positions	10		
Max. stirring quantity[H2O]	0.4Lx10		
Max.magnetic bar[length]	40mm		
Speed range	0-1100rpm		
Speed display	Scale		
Protection class	IP2O		
Motor input Power	12W		
Motor output Power	4W		
Power	20W		
Voltage,Frequency	100-120/200-240V, 50/60Hz		
Dimension[WxDxH]	622x2O5x65mm		
Weight	3.2kg		
Permissible Ambient temperature and humidity	5-40°C, 80%RH		

Features

- Efficient, simple and safe stirring
- High performance and space-saving design to maximize the use of benchtop space and saving time by stirring multiple solutions
- Maintenance-free brushless DC motor
- Speed range O-1100rpm
- Stainless steel work plate covered with silicone cushion, provides excellent performance of skid resistance



Skidresistance



Multiple position

Hot Plate Magnetic Stirrer Mini

suitable for stirring small size items, necessary for all kinds of labs,especially education and R&D institution , Power adapter DC6V Exterior dimension and weight $\Phi120\times49m$ m/500g

Stepless speed regulation.

Constant power heating, no-load surface temperature 120 °C A thermal protection device

Range 0~2300 R/M(no load) Max Stirring Capacity 1000mL.

ESL58438









Hot Plate Magnetic Stirrer Basic Features

- Brushless DC motor is maintenance free and explosion-proof
- Digital temperature control up to 340°C
- Digital speed control up to 1500rpm
- Maximum stirring quantity of H2O is 2OL
- Safety circuits provide overheating protection
- "HOT" warning flashes if plate temperature is above 50°C even when hotplate is turned off
- External temperature control is possible by connecting the temperature sensor (PT 1000)with accuracy at \pm 0.2°C
- Work plate with ceramic coating provides good chemical-resistant performance
- Remote function provides PC control and data transmission
- Wide variety of accessories available to choose

ESL58439



Hot Plate Magnetic Stirrer Pro

EduScience 380°C magnetic hotplate stirrers include all leading safety standards and is chemically-resistant with white ceramic work plate. They can be used in physical, chemical, analytical and biological laboratories.

Features

- Max. heating temperature is 380°C
- $\bullet \ \ High\ resolution\ LCD\ displays\ actual\ temperature\ and\ speed.$
- Brushless DC motor is maintenance free
- Aluminum cover with ceramic work plate, allows for immediate heat transfer
- External temperature control is possible with temperature sensor PT1000
- \bullet Digital temperature control with max. temperature at 380°C
- \bullet Digital speed control with max. speed up to 1500rpm
- Max. stirring quantity of H2O at 5L

ESL58440



Hot Plat Magnetic Stirrer PRO Round

Feature

- Brushless DC motor is maintenance free and explosion-proof
- Digital temperature control up to 340°C
- Digital speed control up to 1500rpm
- Maximum stirring quantity of H2O is 2OL
- Safety circuits provide overheating protection
- \bullet "HOT" warning flashes if plate temperature is above 50°C even when hotplate is turned off
- External temperature control is possible by connecting the temperature sensor (PT 1000)with accuracy at $\pm 0.2^{\circ}C$
- Work plate with ceramic coating provides good chemical-resistant performance
- Remote function provides PC control and data transmission
- Wide variety of accessories available to choose
- LCD Digital Display

ESL58440R



Hotplate Magnetic Stirrer Digital LED 280C Features

- \bullet Digital temperature control with maximum temperature up to $\,$ 280°C $\,$
- \bullet Digital speed control with maximum speed up to 1500rpm
- Stainless steel with ceramic coating work plate provides high chemical resistant performance
- \cdot External temperature control is possible by connecting temperature sensor(PT1000) with an accuracy at $\pm 0.2^{\circ} C$
- LED display shows temperature and stirring speed
- "HOT" warning flashes if work plate temperature is above 50°C











Work plate Dimension [W x D]	Ø135mm (5 inch)	140x140mm (5.6 inch)	Ø135mm (5 inch)	Ø135mm (5 inch)
Work plate material	St.Steel cover with ceramic coating	Aluminum cover with ceramic coating	St.Steel cover with ceramic coating	Aluminum with ceramic coating
Motor type	Brushless DC motor	Brushless DC motor	Brushless DC motor	Brushless DC motor
Stirring positions	1	1	1	1
Max. stirring quantity, [H2O]	20L	5L	3L	20L
Max. magnetic bar[length]	80mm	50mm	50mm	80mm
Speed range	0-1500rpm	200-1500rpm	200-1500rpm	15W
Speed display	Scale	LCD	LED	100-1500rpm
Temperature display	Scale	LCD	LED	LCD
Heating temperature range	Room Temp340°C	Room temp.+5°C - 380°C	Room Temp-280°C	LCD
Heating liquid temperature control accuracy	-	±20rpm	±1°C (<100°C)	Room temperature ~ 340°C, increment 1°C
Temperature control accuracy	-	-	±1% (>100°C)	±1°C(<100°C), ±1%(>100°C)
Overheating temperature protection	420 °C	420°C	320°C	420 °C
Temperature display accuracy	-	±0.1°C	±1°C	0.1°C
External temperature sensor	-	PT1000 (accuracy ±0.5°C)	PT1000 (accuracy ±0.5°C)	PT1000 (accuracy±0.2°C)
"Hot" warning	-	-	50°C	50 °C
Data connector	-	-	-	RS232
Protection class	IP21	IP21	IP42	IP21
Timer function	-	-	-	1min-99h59min
Motor rating input	18W	2.4W	5W	18W
Motor rating output	10W	1.8W	3W	10W
Power	530W	510W	515W	720W
Heating output	500W	500W	500W	600W
Voltage, Frequency	100-120/200-240V, 50/60Hz	100-120/200-240V, 50/60Hz	100-120/200-240V, 50/60Hz	100~120/200~240V, 50/60Hz
Dimension [WxDxH]	160x280x100mm	320x180×108mm	150x260x100mm	260x280x100mm
Weight	2.8kg	2.2kg	1.8kg	2.8kg

Hot Plate & Magnetic Stirrer-ADV LCD

ESL58444

Features

- Large volume: Up to 3OL of liquid on 1O-inch hot plate with powerful magnetic stirring
- Glass ceramic work plate provides excellent chemical resistant performance and most efficient heat transfer
- LCD display for precise monitoring of speed and temperature. External temperature control is possible by connecting the temperature sensor (PT1000) with an accuracy at±0.2°C
- Digital speed control of 100 ~ 1500rpm
- Max. heating plate temperature 500°C
- •The "HOT" warning will flash when the work plate temperature is above 50°C even when the hotplate is turned off
- Data connector: The SD card records the instrument's running data in real time.
- Timing function: the running time of the instrument can be set.







Hot Plat Magnetic Stirrer LCD ADV

ESL58441

Hot Plat Magnetic Stirrer LED ADV

ESL58442

Features

- LCD or LED displays actual temperature & speed
- Built-in PID controller ensures safe heating of the medium with overheating protection
- Maximum heating plate temperature up to
- Glass ceramic work plate is resistant to corrosion and is easy to clean
- External temperature control is possible by connecting temperature sensor(PT1000) with an accuracy of ±0.2°C
- Digital speed control with maximum range of
- Outstanding brushless DC motor offers more stirring power
- Two knobs enable easy adjustment of speed and temperature
- "HOT" warning flashes when work plate temperature is above 50°C even when hotplate is turned off
- Remote function provides PC control and data transmission









External sensor





<u>Chemical resistance</u> <u>Wide range of accessories</u>







Specifications	ESL58444	ESL58441	ESL58442	
Work plate Dimension [W x D]	254x254mm (10 inch)	184x184mm (7 inch)	184x184mm (7 inch)	
Work plate material	Glass ceramic	Glass ceramic	Glass ceramic	
Motor type	Brushless DC motor	Brushless DC motor	Shaded pole motor	
Stirring positions	1	1	1	
Max. stirring quantity, [H2O]	30L	20L	10L	
Max. magnetic bar[length]	80mm	80mm	80mm	
Speed range	100-1500rpm, resolution±1rpm	100-1500rpm, resolution±1rpm	0-1500rpm	
Speed display	LCD	LCD	Scale	
Temperature display	LCD	LCD	LED	
Heating temperature range	Room Temp500°C, increment 1°C	Room Temp550°C, increment 1°C	Room Temp550°C, increment 5°C	
Temperature control accuracy	±1°C(<100°C)±1%(>100°C)	±1°C(<100°C) ±1%(>100°C)	±10°C	
Overheating protection	540°C	580°C	580°C	
Temperature display accuracy	±0.1°C	±0.1°C	±1°C	
External temperature sensor	PT1000(accuracy ±0.2°C)	PT1000(accuracy ±0.2°C)	PT1000(accuracy ±0.2°C)	
"Hot" warning	50° C	50° C	50 °C	
Data connector	SD card	RS232	-	
Protection class	IP21	IP21	IP21	
Motor rating input	18W	18W	15W	
Motor rating output	10W	10W	1.5W	
Power	1400W	1050W	1030W	
Heating output	1350W	1000W	1000W	
Voltage,Frequency	100-120/200-240V, 50/60Hz	100-120/200-240V, 50/60Hz	100-120/200-240V, 50/60Hz	
Dimension [WxDxH]	328x424x138mm	215x360x112mm	215x360x112mm	
Weight	7.2kg	5.3kg	4.5kg	
Timer function	1min-99h59min	-	-	
Permissible ambient temperature and humidity	5-40°C,80%RH	5-40°C,80%RH	5-40°C,80%RH	



Magnetic Stirrer with Heating Mantle 2 in 1

ESL58462/100/250/500/1000

ESL58463/100/250/500/1000

Advantages

- The smart magnetic stirrer can be flexibly set up with inter-changeable heating sleeves for 100mL, 250mL, 500mL, 1000mL round-bottom flask, or 100mL, 250mL, 500mL, 1000mL flat bottom beakers.
- Even more flexible configurations: as one heating magnetic stirrer, or as one heating sleeve plus one magnetic stirrer.
- Temperature self calibration function for higher temperature accuracy.
- Heating sleeve made of high-quality Aluminum silicate fiber cotton with accurate temperature control, uniform heating and corrosion resistance.
- Strengthened magnetic fields with enhanced stirring power.
- Fireproof metal outcast with higher safety level.
- Explosion-proof DC brushless motor free of maintenance and spark, and with long service life.
- The "HOT" warning will flash if the work plate temperature is above 50°C even when the hotplate is turned off, as long as the power cable is connected.
- Two independent safety circuits are designed to continuously monitor the equipment. When the sensor malfunctions and overheating occurs, an error code will be generated and the stirrer will stop heating. When the first safety circuit is shorted, the second safety circuit will cut off the power supply to ensure the safety of the operator



Applications

• Magnetic stirrer with heating sleeve is a very popular product for laboratories in scientific research, industry and mining, food processing, biochemistry, agriculture, petrochemical, pharmaceutical, and educational aspect. It is used for heating and incubation of liquids at a certain temperature. It provides fast and uniform heating with highly precise temperature control and strong stirring power. It can serve as a magnetic stirrer with heating sleeve, or as a magnetic stirrer and a heating sleeve.

Heating Mantle model	100 ML	250 ML	500 ML	1000 ML	100 ML	250 ML	500 ML	1000 ML
Picture							9	0
Specification	Beaker	Beaker	Beaker	Beaker	Flask	Flask	Flask	Flask
Capacity	100 ml	250 ml	500 ml	1000 ml	100 ml	250 ml	500 ml	1000 ml
Heating Mantle Inner Diameter	54.75mm	72.75mm	89.75mm	118.75mm	72.75mm	89.75mm	118.75mm	144.75mm







Specification

Specification			
Specifications	ESL58444	ESL58441	
Motor type	Brushless DC motor	Brushless DC motor	
Speed range [rpm]	200-1500rpm	200-1500rpm	
Speed control accuracy [rpm]	±20rpm	±20rpm	
Speed display	LCD	LCD	
Temperature display	LCD	LCD	
Temperature control range [°C]	25-280° [℃]	25-280° ^C	
"Hot" warning	50° C	50°C	
Overheat protection [°C]	420 °C	420 °C	
Temperature display accuracy [°C]	±0.1°C	±0.1°C	
Heating liquid temperature control accuracy	±1°C(<100°C), ±1%(>100°C)	±1°C(<100°C), ±1%(>100°C)	
External temperature sensor	PT1000 (accuracy ±0.2°C)	PT1000 (accuracy ±0.2°C)	
Protection class	IP21	IP21	
Motor input power [W]	1.8W	1.8W	
Heating power [W]	210W/240W/380/440W	210W/240W/380/440W	
Voltage, Frequency	100-120V,60Hz;200-240V,50Hz	100-120V,60Hz;200-240V,50Hz	
Dimension [WxDxH]	295X160X160mm	295X160X160mm	
Weight	3.7Kg	3.7Kg	
Permissible ambient temperature	5-40°C	5-40°C	
Permissible ambient humidity	80%	80%	
Compatible containers	100mL、250mL、500mL 、1000mL flat bottom beakers	100mL、250mL、500mL、1000mL round bottom flasks	







Hot Plat Magnetic Stirrer Multi

ESL58446



Electronic speed control for constant speed even during changes in load Maximum speed of 1100rpm

Max. temperature 120°C (liquid temp. 70C)

All 10 positions are controlled simultaneously

High magnetic adhesion, Skid resistance

Maintenance-free brushless DC motor

Stainless steel work plate, covered with silicone cushion, provides the excellent performance of heating uniformity and skid resistance

cTUVus approved for UL and CSA

2 YEAR WARRANTY

The MS-H-S10 10-place multi-position hotplate stirrer features a powerful rotary drive providing consistent sample conditions across each position, diameter up to 3 inches, volumes up to 400mL/beaker, 250mL/ Erlenmeyer flask. heat only, stir only, or heat and stir simultaneously. The stirrer surface is stainless steel with a silicone anti-slip mat which is chemical resistant and easy-to-clean.

MS-H-S10 10-Position Analog Magnetic Hotplate Stirrer

Specifications:

Work plate dimension 180x450mm

Work plate material-Stainless steel with silicone

Motor type-Brushless DC motor

Motor rating input-12W

Motor rating output-4W

Power-490W

Heating output-470W

Voltage-100-120/200-240V 50/60Hz

Stirring positions-10

Max. stirring quantity-0.4Lx10

Max. magnetic bar[length] 40mm

Speed range 0-1100rpm

Speed display Scale

Temperature display Scale

Heating temperature range Room Temp.-120°C (liquid temperature 70°C)

Overheating protection 140°C

Protection Class IP42

Dimension[WxDxH] 182×622×65mm

Weight 3.2kg

Permissible ambient temperature and humidity 5-40°C, 80%RH



Specification

Cat. No.	Photo	Description	ESL58444	ESL58441 & ESL58442	ESL58439	ESL58443	ESL58440
58400001		Blue carrying plate, use with color quarter pies				•	
58400065	0	Blue Fixed ring, use with color quarter pies				-	
58400002		Red quarter pie, 11 holes, 4mL reaction vessel, Ø15.2 mm, 20 mm depth	•	•	•	•	•
58400003		Purple quarter pie, 4 holes, 20 mL reaction vessel, Ø28mm,24 mm depth	•			•	
58400004	9	Blue quarter pie, 4 holes, 30 mL reaction vessel, Ø28mm,30mm depth			•	•	
58400005		Black quarter pie, 4 holes, 40 mL reaction vessel, Ø28mm,43mm depth				•	•
58400048	1	Green quarter pie, 6 holes, 8 mL reaction vessel, Ø17.8 mm, 26mm depth	-			•	•
58400049	0	Golden quarter pie, 4 holes, 16 mL reaction vessel, Ø21.6 mm, 31.7 mm depth	•		•	•	•
58401006	6	Reaction block for 50mL round bottom flask (one flask capacity)				•	
58401007	•	Reaction block for 100mL round bottom flask (one flask capacity)				-	
58401008	6	Reaction block for 250mL round bottom flask (one flask capacity)				-	
58401009	8	Reaction block for 500mL round bottom flask (one flask capacity)					
58400019	9	F101 protective over, temperature resistance of 135°C					
58400016		PT10000-A, length of 230mm	•			•	•
58400136	8	PT1000-B, temperature sensor with glass coated, length of 230mm	-			•	
58400017	Tot	Support clamp of PT1000 Vertical bar length: 45 cm, stents length: 25 cm, Stem diameter:10 cm	•	•	-		
58400540	Tot	Support clamp of PT1000 Vertical bar length: 15 cm, stents length: 18 cm, Stem diameter:10 cm					

Cat.NO.	Photo	Name of stirrer bars	Size [mm]
58400693		Stirrer bar, cross	Ø 5 X 10
58400694		Stirrer bar, cross	Ø10 X 20
58400695		Stirrer bar, cross	Ø 9 X 25
58400696		Stirrer bar, cross	Ø 10 X 30
58400697		Stirrer bar, cross	Ø 11 X 38
58400698		Stirrer bar, cross	Ø 20 X 65
58400699		Stirrer bar, Triangular prism	Ø 14 X 25
58400700		Stirrer bar, Triangular prism	Ø 14 X 50
58400701		Stirrer bar, Triangular prism	Ø 9 X 35
58400702	~	Stirrer bar, Triangular prism	Ø 14 X 80
58400703		Stirrer bar, Gear shape	Ø 8 X 30
58400704	2 5	Stirrer bar, Gear shape	Ø 8 X 38
58400705		Stirrer bar, Gear shape	Ø 10 X 50
58400706		Stirrer bar, ellipse	Ø 10 X 20
58400707		Stirrer bar, ellipse	Ø 12 X 25
58400708		Stirrer bar, ellipse	Ø 11 X 30
58400709		Stirrer bar, ellipse	Ø 15 X 35
58400710		Stirrer bar, ellipse	Ø 20 X 40
58400711		Stirrer bar, ellipse	Ø 20 X 50
58400712		Stirrer bar, ellipse	Ø 22 X 70
58400713		Stirrer bar, slide round	Ø 6 X 25
58400714		Stirrer bar. slide round	Ø 6 X 30
58400715		Stirrer bar, slide round	Ø 8 X 40
58400716		Stirrer bar, slide round	Ø 8 X 50
58400717		Stirrer bar, slide round	Ø 10 X 60
58400718		Stirrer bar, slide round	Ø 13 X 80
58400719		Stirrer bar, slide round	Ø 24 X 159
58400720		Stirrer bar, Eight prism	Ø 8 X 20
58400721		Stirrer bar, Eight prism	Ø 10 X 30
58400722		Stirrer bar, Eight prism	Ø 8 X 40
58400723		Stirrer bar, Eight prism	Ø 8 X 50
58400724		Stirrer bar, Eight prism	Ø 9 X 90
58400725		Stirrer bar, round	Ø 27 X 57
58400726		Stirrer bar, round	Ø 27 X 108
58400727		Stirrer bar, round	Ø 27 X 159
58400728		Stirrer bar, round	Ø 6 X 10
58400729		Stirrer bar, round	Ø 8 X 15
58400730		Stirrer bar, round	Ø 8 X 20
58400731		Stirrer bar, round	Ø 8 X 25
58400732		Stirrer bar, round	Ø 6 X 30
58400733		Stirrer bar, round	Ø 8 X 40
58400734		Stirrer bar, round	Ø 8 X 50
58400735		Stirrer bar, round	Ø 8 X 65
58400736		Stirrer bar, round	Ø 13 X 8
58400737		Stirrer bar, crown	Ø 9 X 6
58400738		Stirrer bar remover	Length 30 cm
58400739		Stirrer bar remover	Length 25 cm

Cat.NO./Picture	ES1 Set of magnetic stirring bars	Cat.NO./Picture	ES 2 Set of magnetic stirring bars
	Stirrer bar, round, Ø6X1O, 2		Stirrer bar, round, Ø8X4O, 2
	Stirrer bar, round, Ø6X15, 2		Stirrer bar, Eight prism, Ø8 X 40, 2
	Stirrer bar, round, Ø8X2O, 2	_	Stirrer bar, Gear shape, Ø8 X 30, 2
	Stirrer bar, round, Ø8X25, 2	ES NEW	Stirrer bar, slide round, Ø8 X 40, 2
	Stirrer bar, round, Ø6X3O, 2		Stirrer bar, ellipse, Ø20 X 40, 2
	Stirrer bar, round, Ø8X4O, 2	E (1)	Stirrer bar, cross, Ø9 X 25, 2
	Stirrer bar, round, Ø8X5O, 2		Stirrer bar, crown, Ø9X6, 2
58400740	Stirrer bar, round, Ø10X80, 2	58400741	Stirrer bar, round, Ø8X5O, 2
	Stirrer bar, Triangular prism, Ø14 X 25, 2		Stirrer bar, Triangular prism, Ø9 X 35, 2
	Stirrer bar, Triangular prism, Ø14 X 50, 2		

Heating Mantle Controlled

Heating mantle Control Method: Proportional Voltage Control.

Based on the user's need, before using, the temperature should be controlled by using a separate thermometer As the heated part (heated object) is hand-weaved using fibre glass, Fire is prevented by a built-in Thermal protector, which automatically shuts down, the product in case the inside temperature exceeds an appropriate temperature.

The product resumes normal operation when the inside temperature returns to normal. Thermal Insulation uses non-toxic asbestos-free ceramic wool (fiber glass).

There are two kinds of heated part shape like flask type and beaker type. Products installed temperature voltage controller.

Case Construction Steel, with chemically resistant powder coating Thermal Insulation Asbestos-free ceramic wool. (Fibre glass) Heating Element Ni-

chrome wire

Mantle Woven glass fibre mat

Heating Element Temperature Up to 450 °C, Maximum

Supply Voltage & Frequency AC 110~220V (or 220~230V), 50/60Hz

Features

Non-Asbestos

Heater section was hand weaved in use of fiber glass. Body case was painted by resistant power coating Several kinds capacity There are two kinds of Flask & Beaker

Heating Mantle & Stirrer Function (End ST Series)
Speed control from 50 RPM to 1,200 RPM

Technical Description

Heating material: Nichrome wire Heating Temperature: Up to 450°C(Max) Mantle material: Woven glass fiver mat



MODEL	Capacity	Flask Dia	Dimension	Wattage	Depth	Weight
ESL58455	100mL	63-66mm	Ø145x 140(H)mm	80	40	1.4kg
ESL58456	250mL	83-86mm	Ø145 x 140(H)mm	150	50	1.4kg
ESL58457	500mL	102-105mm	Ø190 X 165(H)mm	230	65	1.6kg
ESL58458	1000mL	130-133mm	Ø190 X 140(H)mm	330	75	2.2kg
ESL58459	2000mL	165-169mm	Ø190 140(H)mm	470	100	3.5kg
ESL58460	3000mL	184-187mm	Ø190 x 140(H)mm	570	105	4.3kg
ESL58461	5000mL	221-237mm	Ø 325 x 140(H)mm	850	131	6kg

MODEL	Capacity	Flask Dia	Dimension	Wattage	Depth	Weight
ESL58455ST	100mL	63-66mm	Ø145x 140(H)mm	80	40	1.4kg
ESL58456ST	250mL	83-86mm	Ø145 x 140(H)mm	140	50	1.4kg
ESL58457ST	500mL	102-105mm	Ø190 X 165(H)mm	240	65	1.6kg
ESL58458ST	1000mL	130-133mm	Ø190 X 140(H)mm	350	75	2.2kg
ESL58459ST	2000mL	165-169mm	Ø190 140(H)mm	450	100	3.5kg
ESL58460ST	3000mL	184-187mm	Ø190 x 140(H)mm	550	105	4.3kg
ESL58461	5000mL	221-237mm	Ø 325 x 140(H)mm	800	131	6kg





Dry Bath (Block Heater) Digital LED

Features

- A wide range of temperature control up to 105°C/150°C.
- Overheating protection.
- Sound reminder function.
- External temperature sensor PT1000
- $\bullet \, Block \, equipped \, with \, a \, lid \, for \, heat \, preservation \, and \, \, prevent \, pollution. \,$
- Knob adjustment is easy to operate.

ESL58448 - ESL58449 ESL58450 - ESL58451

Cat.No.	Block types	Capacity	Diameter Depth
58400459		0.2mL×30	6.4×15mm
58400410		0.5mL×20	8.2×26.4mm
58400461		1.5mL×20	11×34.7mm
58400462	ALIE .	2mL×20	11×34.7mm
58400412		5/15mL×12	17×48mm
58400413		50mL×4	29.8×48mm
58400522			e block, bead ath Adapt to S1
58400523			e block, bead ath Adapt to S2
58400520		Aluminu	m beads









Specifications	ESL58448	ESL58449	ESL58450	ESL58451
Temperature range[° C]	Room temp+5~105	Room temp+5~105	Room temp+5~150	Room temp+5~150
Temperature setting range [° C]	25~105 25-90: ±0.3	25~105 25-90: ±0.3	25~150 25-90: ±0.3	25~150 25-90: ±0.3
Temperature control accuracy $[^{\circ}$ C]	90-105: ±0.6	90-105: ±0.6	90-150: ±0.6	90-150: ±0.6
Temperature uniformity@37°C [$^{\circ}$ C]	±0.2	±0.2	±0.2	±0.2
Power [w]	100	200	100	200
Time setting range	0~99h59min	0~99h59min	0~99h59min	0~99h59min
External sensor	Yes	Yes	Yes	Yes
Display	LED	LED	LED	LED
Power supply	110/220V, 50/60Hz	110/220V, 50/60Hz	110/220V, 50/60Hz	110/220V, 50/60Hz
External dimension[mm]	290x210x120	290x210x120	290x210x120	290x210x120
Weight[kg]	3.2	3.2	3.2	3.2
Operating temperature[° C]	+10~40	+10~40	+10~40	+10~40
Operating humidity [% RH]	<80	<80	<80	<80





Water Still 4 Ltr /Hour Borosil Basic

Features: Abundant Output. The still provides, 4 litres/hr of distilled water produced through a power input of 3KW by a chromium plated heater housed in a horizontal Glass Boiler Distilled output is cool ensured by a high efficiency condenser. Temperature of distillate 25°C – 40°C tested for ambient room temperature of 30° C. CE MARKED Dimensions (WxDxH) 50 cmx 15 cmx 45cm, 50 cmx 20 cmx 55cm Weight 6 kg. Approx., Power 220/240V, 50/60 Hz. Single phase. 3KW Heater. Water Supply Min. Flow rate 1 litre/min. Min. Pressure 3 p.s.i. (0.2 x 105 NM-2)Ideal for general Laboratory use- capable of producing pyrogen free water. Output 4 lit/hr Conductivity (using raw water) $3.0 - 4.0 \mu$ S/cm Conductivity (using treated water) $1.5 - 2.0 \mu$ S/cm PH 5.5 – 6.0 Distillate quality Pyrogen free Construction The stand is powder coated for long rust free Operation. Heater is a 3KW Chromium plated heater fitted with a thermostat, which shuts off automatically in case

of water supply failure. The Boiler & Condenser are designed for high efficiency and provided with threading for easy plumbing of condenser. Boiler is provided with Teflon screw cork for insitu cleaning of the boiler. All plumbing connections to the equipment are made via Screw thread connectors Our water still has following additional safety features: Gate Valve: Prevents water wastage. Flow Switch: For Boiler Safety On/Off switch with water failure indicator lamp. Packing Info: packing Dimensions: 50 cm x 47 cm x 46 cm. Gross - Weight: 12.00 kgs.

ESL58354



Water Still 4 Ltr /Hour Metal Element

For a continuous supply of distilled water. The evaporation unit is Simply connected to an existing water supply system. Easy to operate and clean.

Versions are available for 110 V/60 Hz and 230 V/50 Hz. All connections included. Without tubing.

Technical data:

Distilled water per hour: 4 litres, Conductivity: 1,5 - 2,5 μS, Connected load: 3 kW, Tubing: 10 mm, Weight: 9 kg **Dimensions** $(H \times L \times W) : 600 \times 190 \times 190 \text{ mm}$

ESL58353

Water Still 4 Ltr /Hour **Borosil Basic Plus**

Cap: 4 ltrs / hr, Single Safety, Pressure

Temperature Switch manual reset button- with UK PLUG and ON/OFF switch on the heater. CE Certified.

ESL58355

Tel: +44 (0)203 8685740





Water Still 4 Ltr /Hour Borosil Basic Pro

Cap: 4 ltrs / hr, Dual Safety, with two Pressure, Temperature Switch with manual reset button- with UK PLUG, and ON/OFF switch on the heater. CE Certified.

ESL58356

Automatic Water Still

The optimum performance AUTOMATIC WATER STILL, WATER DISTILLER & AUTOMATIC DOUBLE WATER STILL with its proven features & stylish design

This advanced Automatic Water Still, Water Distillers and Automatic Double Water Still produces and reserves distilled water on the important basis of high-effectiveness automated mechanism. With its up-to-date design and practically large-sized storage reservoir, this superior equipment offers exceptional value for end-users.



Individual Specification per Model

MODEL		tomatic Water Sti th the storage tan			Distiller out tank)	Automatic Double Water Still (with the storage tank)
MODEL	ESWS-701	ESWS-702	ESWS-703	ESWD-501	ESWD-502	ESWS-701D
Product Water	4 Liters / hr	8 Liters / hr	12 Liters / hr	8 Liters / hr	4 Liters / hr	4 Liters / hr
Heater	3 KW	6 KW	3 KW	9 KW	6 KW	9 KW
Cooling Water	40 Liters	70 Liters	90 Liters	40 Liters	70 Liters	50~70 Liters
External Dimension (L X D X H) (mm)	750 X 395 X 640	750 X 395 X 640	750 X 395 X 640	355 X 385 X 656	520 X 520 X 730	750 X 670 X 670
Storage Tank	20 Liters	20 Liters	20 Liters			20 Liters
Supply Voltage & Frequency	230V, 50/60Hz	230V, 50/60Hz	230V, 50/60Hz	230V, 50/60Hz	230V, 50/60Hz	230V, 50/60Hz (or 380V, 50/60Hz if customer request)
Material	Interior Construction: Stainless Steel (Boiler and Storage Tank), Exterior Construction: Steel Plate with Powder Coating					
Safety Device	Over Temperature Li	Over Temperature Limit/Over Current Glass Fuse, Water Float Level Sensor/Water Supply Cut Off				

Design and Specifications can be changed without notice for quality improvement.





Water Still 4 Ltr /Hour Borosil Silica Heater

Single Water Distillation Unit with 3 KW

Silica Heater, Cap: 4 ltrs / hr.

Features:

Gate Value to prevent water wastage.

Flow switch for boiler safety.

Teflon drain cock for easy maintenance.

High quality distillate.

Power coated stand.

Safety Built - in.

Silica Heater

Provided with a threaded Connection for easy, safe and quick assembly of Silica Heater.

Easy Cleaning

The Boiler is provided with a Teflon screw cock for easy cleaning of the boiler

Screw Thread Connectors

All plumbing connections are via screw thread connectors with silicon rubber 'o' rings. This facilitates easy fitting and removal of hose, without using excessive force, avoiding the danger of glassware breakage during assembly.

With over Heat protection: Pressure Temperature Switch (PTS): Shuts off the unit when water level in the boiler falls below the heater.

ESL58357



Water Still 4 Ltr /Hour Borosil Automatic Double Distillation

Water still borosilicate Glass, Cap: 4 ltr/hr, 4 ltr/hr, Double Distillation with automatic cabinet . it is ideal for procuring ultra high purity water for demanding applications in the laboratory / tissue culture work.

it incorporates several safety devices for optimum use in hospitals and labs and has been designed to meet the International Safety Standards IEC 61010-01. Special features include Flow Control Safety, Gate Valve, Level Sensor as well as a Reservoir Level Sensor for automatic operation of the unit.

ESL58359



Water Still 4 Ltr /Hour Borosil Automatic Single Distillation

Water still borosilicate Glass, Cap: 4 ltr/hr, single distillation with automatic cabinet . it is ideal for procuring ultra high purity water for demanding applications in the laboratory / tissue culture work. it incorporates several safety devices for optimum use in hospitals and labs and has been designed to meet the International Safety Standards IEC 61010-01. Special features include Flow Control Safety, Gate Valve, Level Sensor as well as a Reservoir Level Sensor for automatic operation of the unit.





Ducted Fume Extractor Cabinet

Large ducted hood mounted local extraction cabinet designed specifically for laboratories. It is commonly used in dental & medical labs, pharmaceutical laboratories, research & development and school science laboratories.

This unit exhaust air through a flexi-duct externally to the atmosphere. Although, it's a ducted fume extractor, you don't need to have a special vent to use the BV930H-D. Its flexi-ducts can be fitted to a normal domestic vent or placed on a partially opened window.

it also provides operators with a safe workstation, as handling of all the potential harmful chemicals is done within the hood enclosure in front of the intake filter area. For artwork applications, the enclosure can accommodate a standard A1 drawing boards, which will git at an angle so the unit captures the overstay efficiently, keeping the surrounding working area clean.

it is designed for immediate operator protection . If outside venting isn't possible, ES also offers re-circulatory fume cabinets such as the and BV930H-C. Both units have higher filtration specifications.

Applications

The ducted fume extractor cabinet is suitable to filter fumes, vapours and particulates from:

Spray Adhesives

Conformal coatings (thin polymer film usually used to coat circuit boards), Paints, Monomers, Resin, Sealants, Solders, Light Grinding, Organic Solvents, Cleaners, Hazardous powders & particulates.





Bench Top Environment Cabinet Enclosure

Sealed environment enclosure for sensitive sample handling -NO Transfer Hatch, Supplied with Nitrite glove ports, 2 x 8mm push-fit gas connections and internal power socket. Green Base

ESL58371



Ducted Fume Extractor Cabinet 2

it is ideal for use with spray adhesives, conformal coatings and paints, monomers, hazardous powders and particulates, resins, sealants, solders, light grinding particles, organic solvents and cleaners etc.

All handling and/or use of potentially harmful substances is carried out within the hood enclosure in front of the intake filter area. For artwork applications, standard A2 drawing board can be placed within the hood enclosure. The board fits at an angle for efficient overspray capture.

These fume cabinets are designed for immediate operator protection whereby 'large' particulates (> 5 microns) are filtered out and 'fine' particulates (<5 microns) together with odours, gases, vapours and fumes within the hood enclosure are exhausted to atmosphere via the flexi-duct(s).

The Flexi-duct can be fixed to a standard domestic vent or simply placed through a partially open window to facilitate portability and/or convenience. Key Features, Can accommodate standard drawing boards, Clear polycarbonate panel for protection Hood lighting

ESL58386



Ducted Spray Booth

It is ideal for applications that include filtration of aerosol adhesives (glue booth for spray mounts), aerosol lacquers and fixatives and airbrush sprays applied to artwork up to A1 size. A1 drawing boards can be placed into the hoods at an angle for efficient over-spray capture. The workstation hood also accommodates prototypes, models, ceramic parts, PCB's etc., placed onto the hood base to be sprayed, soldered, cleaned, glued, moulded, sanded etc.

These cabinets are designed for studio / classroom / workshop cleanliness and for immediate operator protection whereby 'large' particulates (> 5 microns) are filtered out and 'fine' particulates (<5 microns) together with odours, gases, vapours and fumes within the hood enclosure are exhausted to atmosphere via the flexi-duct(s).

Key Features

For artwork applications, standard A1 drawing boards can be placed within the hood enclosure. The boards fit at an angle for efficient overspray capture.

3D items, models, printed circuit boards etc. may be placed onto the hood base for spraying, cleaning, sanding, gluing etc. The Flexi-ducts can be fixed to a standard domestic vent(s) or simply placed through a partially open window to facilitate portability or convenience.

With the aid of a "Y" piece the 2 ducts can be placed through one hole in the wall.

Why choose the glue booth extraction unit?

The BV100H-D hood mounted extraction unit, like all ES filtration and extraction systems carries a lifetime guarantee. The unit has been designed to make sure it's quiet in operation and can be assembled in seconds. Simply place onto a desk, bench or trolley and then plug in and switch on to start extracting particulates from applications like glue overspray and aerosol adhesives.

How does it filter harmful substances and solvent?

ESL58390



Particle Filter Ifa2p (Pack Of 6)

ack of 6 particle filters IFA2. For general spray and dust particle capture





Spray Booth

it is general purpose hood mounted filtration cabinet and workstation for light aerosol spray and airbrush use for fume/vapour adsorption and dilution. It designed for use within art, graphics, design technology areas, crafts and modelling. It has a big working space and can accommodate up to an A1 size artwork, as well as prototypes, scale models, ceramics, PCBs and more.

It will extract fumes and filter particles created by: Aerosol Adhesives - Lacquers - Fixatives - Airbrush Sprays - Solders - Light Grinding - Key Features - A1 drawing boards can be placed into the hoods at an angle for efficient overspray capture.

The workstation hood also accommodates prototypes, models, ceramic parts, PCB's etc, placed onto the hood base to be sprayed, soldered, cleaned, glued, moulded, sanded etc.

Included: BV100H Filter unit with 2x axial fans - Hood Enclosure 1 x Particulate filter - 1 x Charcoal Impregnated fibre filter Power Lead - Data/Warranty Booklet

Dimensions: 950x680x615 (wxhxd) [internal] 955x740x730 (wxhxd) [overall] - 35kg Weight

Description: Steel construction finished in grey - fan/filter unit mounted onto hood enclosure – particulate filter – carbon impregnated fibre filter - 2 x axial fans, external rotor motor type brushless, UL, VDE and CSA approved – sealed electrical wiring and switch, downstream of filters. Air Volume at Free Air: 650 m3/hr - Ave. Air Velocity at Filter Face: 0.50 m/sec - Ave. Air Velocity at Hood Face: 0.3 m/sec - Fan Motor Spec: 230V, 50Hz, 90W, 115V 60Hz 84W - Filters: Particle Filter - IFA2, Charcoal Filter -CHA2, Filter Kit - FKA2 - Noise Level LAeq dB(A): 61 db(A)

ESL58409



Hood Mounted Filtration Cabinet

it is large dual-speed hood mounted filtration cabinet with highefficiency carbon filter. It is designed to offer local exhaust ventilation for large projects, and immediate operator protection when external venting isn't possible.

Applications: it is suitable to filter fumes, vapours and particulates from: **Spray Adhesives**

Conformal coatings (thin polymer film usually used to coat circuit boards) - Paints - Monomers - Resin

Sealants - Solders - Light Grinding - Organic Solvents - Cleaners

Other hazardous powders and particulates Dimensions: 955x800x850mm (overall) 950x640x615 (wxhxd) [internal]

60kg Weight Description: Steel construction finished in grey – fan/filter unit mounted onto hood enclosure complete

with clear polycarbonate panel and hood lighting – particulate (intake) filter - bonded carbon filter

2 x centrifugal blowers, external rotor motor type brushless, UL, VDE and CSA approved - sealed electricals,

downstream of filters. - Air Volume at Free Air: 710m3/hr - Ave.

Air Velocity at Filter Face: 0.57m/sec (0.40m/sec slow setting) - Ave. Air Velocity at Hood Face: 0.50m/sec (0.39m/sec slow setting) - Fan Motor Spec: 230V, 50Hz, 210W, 115V 60Hz 220W

Filters: Particle Filter: IFA2 - Carbon Filter: AC100 - Optional EPA Filter: EPA705P or HEPA Filter HEPA705PESL58394

High Efficiency Filter Cabinet

This is a high-efficiency filter cabinet with acrylic capture shield to contain and filter fumes and Particles within dental labs, electronic design, pharmaceutical labs, and classroom environments. Included: Filter unit with centrifugal fan - Acrylic Spray Shield - 1 x Particulate filter

1 x Activated Carbon filter - Power Lead - Data/Warranty Booklet - Folding clear Polycarbonate plastic fume shield Carry handle - Sturdy steel construction

Dimensions: 500x385x530 (wxhxd) - 25kg Weight

Description: Fan/filter casing (steel construction finished in grey) - clear PETG folding plastic fume shield particulate (Intake Filter) - 3.5kg bonded carbon filter

centrifugal blower, external rotor motor type brushless, UL, VDE and CSA ap-proved sealed electrical wiring and switch, downstream of filters.

Air Volume at Free Air: 355m3/hr - Ave. Air Velocity at Filter Face: 0.55m/sec - Ave.

Air Velocity at Shield Face: 0.38m/sec - Filters: FA3 Particle Filter, AC200 Activated Carbon Filter. EPA Fine Particle filter available as optional extra and upgraded HEPA - Fan Motor Spec: 230V 50Hz 105W - Noise Level LAeq db(A): 60



Water Swan Neck Tap Cold With Lever

Swan Neck Tap - Cold with Lever

ESL58550

ESL58551

Water Swan Neck Tap Hot Swan Neck Tap - Hot



Water Mixer Swan Neck Tap With Lever Gas Tap 2 Way 90 Degree

ESL58549



Swan Neck Mixer Tap with Gas tap double for bench mounting

ESL58558



Gas Tap 2 Way 180 Degree Gas tap double for bench mounting ESL58559



www.eduscienceuk.com

sales@eduscienceuk.com

ESL58394



Vortex Mixer

ES Vortex Mixers are ideal instruments for mixing liquid components in tubes, resuspension of cells,

using an eccentric mechanism. They are widely used in biological and chemical analysis applications.

Vortex Mixer Adjustable Speed

ESL58495

Vortex Mixer Fixed Speed

ESL58494

Features:

- Touch operation or continuous mode
- Variable speed control from 0 to 2500rpm (ESL58495)
- Fixed Speed 2500rpm (ESL58494)
- Used for various mixing applications with optional adapters (ESL58495)
- Specially designed vacuum suction feet for body stablility
- Robust aluminum-cast construction



Wide range of accessories





Standard top (Default) for <Ø30mm tubes and small vessels Cat. No. ES000034

Specifications	ESL58495 (Adjustable speed)	ESL58494 (Fixed speed)
Voltage	100-120V/200-	100-120V/200-
Power	60W	60W
Mixing motion	Orbital	Orbital
Orbital diameter	4mm	4mm
Motor type	Shaded pole motor	Shaded pole motor
Motor rating input	58W	58W
Motor rating output	10W	10W
Speed range	0-2500rpm	2500rpm
Speed display	Scale	-
Run type	Touch operation/ Continuous	Touch operation/ Continuous
Dimension[W×H×D]	127×130×160mm	127×130×160mm
Weight	3.5kg	3.5kg
Permissible ambient temperature	5-40°C	5-40°C
Permissible relative humidity	80%RH	80%RH
Protection class	IP21	IP21



VT1.3.1 tube adapter

Cat. No. 58490020

for 48 test tubes, Ø6mm (1mL)



VT1.3.2 tube adapter

Cat. No. 58490021

for 15 test tubes, Ø10mm (1.5-2mL)



VT1.3.3 tube adapter

Cat. No. 58490022

for 16 test tubes, Ø12mm (5mL)



VT1.3.4 tube adapter

Cat. No. 58490023

for 8 test tubes, Ø16mm (10mL)



VT1.3.5 tube adapter

Cat. No. 58490024

for 8 test tubes, Ø20mm (10-15mL)



VT1.3.6 Platform pad

Cat. No. 58490043

Ø99mm, multiple small tubes and vessels



VT1.3.7 vacuum chuck

Cat. No. 58490158

made of rubber



Application of accessories

Accessories	Adjustable speed model (0-2500rpm)		
	Touch mode (High speed area)	Continuous mode (Low speed area)	
VTI.1	Υ	Υ	
VTI.2 + VT1.3.1	Υ		
VTI.2 + VT1.3.2	Υ		
VTI.2 + VT1.3.3	Υ		
VTI.2 + VT1.3.4	Υ		
VTI.2 + VT1.3.5	Υ		
VTI.3 + VT1.3.6	Υ		
VTI.3 + VT1.3.1		Υ	
VTI.3 + VT1.3.2		Υ	
VTI.3 + VT1.3.3		Υ	
VTI.3 + VT1.3.4		Υ	
VTI.3 + VT1.3.5		Υ	

VT1.3.8 tube adapter

Cat. No. 58490395

for 24 holes test tubes, Ø 10mm (1.5-2mL)



VT1.3.9 PCR tube adapter Cat. No. 58494185

for 56 test PCR tubes, strips of 8 , \emptyset 5mm (0.1mL-0.5mL)



VT1.3.10 tube adapter

Cat. No. 58490855

for 4 holes test tubes, Ø28mm (50mL)



VT1.3.11 Tube adapter

Cat. No. 58490862

12XØ9.8mm+12XØ6.6mm+12XØ5mm (1.5/2.0/0.5/0.2mL)



VT1.3.12 Large Platform Multi-Specimen Test Tube Adapt<u>er</u>

Cat. No. 58490875

44 holesXØ5mm+55 holesXØ6.6mm+30 holesXØ9.8mm(1.5/2.0/0.5/0.2mL)



VT1.2 Tube holding rod

Cat. No. 5849044

used with tube adapters



VT1.3 Universal top plate Cat. No. 58490505

Ø 100mm



PS1.0 Microplate clamp

Cat. No. 58494342











Techncial Specifications:	
Shaking mode	orbital shaker
Diameter (mm)	4.5
Shaking mode	orbital
Operation mode	touch
Shaking volume ml (1 pcs tube)	Max.80
Tube diameter (mm)	Max.30
Operating environment	5-40°c 80%RH Mzx.
Shaking speed(rpm) (fixed)	3000
Power Supply	AC100-240V,50/60Hz
Max Power(W)	5
Exterior Dimension(mm)(φxH)	92x81
NW	0.55kg
Protection Class	IP43

Mini Vortex Mixer

Application: • Economical and compact tube shaker with jog function. The compact and compact design is a test tube mixer for shaking and mixing a small amount of samples. It can be used for shaking test tubes, centrifuge tubes, Eppendorf tubes, etc., and the mixing effect is remarkable. It is one of the indispensable tools in the laboratory.

Main features: • Touch working mode. • Fixed speed 3000rpm. • The shell is made of engineering plastics, resistant to chemical corrosion, • Exquisite aluminum-zinc base, stable operation. • Small and beautiful. • DC brushless motor, stable performance.

ESL58493

Paddle Blender

Application:

Food microorganisms, analysis of animal tissues, biological samples, homogenization of cosmetics, homogenization of meat, fish, vegetables, and fruits; pharmaceuticals, clinical, molecular, toxin and bacteria detection and other fields..

Main features:

- Large-screen LCD display, which is convenient to operate and can store 8 groups of work programs.
- Intelligent control, the homogenization speed and time can be controlled.
- The glass transparent window is easy to observe, and the fully open door is easy to clean.
- The sample has no toucht with the homogenizer. If there is no sample leakage, system cleaning is not needed.
- · Homogeneous soft, no pollution, no damage, no heating, no need for sterilization, no need to wash utensils.
- With strong sound insulation capability.



Technical Specifications:			
Model	ESL58545	ESL58546	ESL58547
Control model+Data storage	PID control+8 groups programs	PID control+8 groups programs	PID control+8 groups programs
Temperature range(^O c)	/	/	RT-60 ^O c
Sterilization	/	253.7nm	253.7nm
Net Weight(kg)	24	24.5	25
Display mode	4.3 inches LCD Screen display	4.3 Inches LCD Screen Display	4.3 Inches LCD Screen display
Paddle time	0.1-99h59m59s or continuously operation	0.1-99h59m59s or continuously operation	0.1-99h59m59s or continuously operation
Paddling time (times/s)	3-Dec	3-Dec	3-Dec
Capacity(ml)	3-400	3-400	3-400
Sterilization bag size(cm)	17x30	17x30	17x30
Paddle material	SS+Anti-corrosion spray	SS+Anti-corrosion spray	SS+Anti-corrosion spray
Paddle distance	0-50mm adjustable	0-50mm adjustable	0-50mm adjustable
Start mode	Soft start	Soft start	Soft start
Pause function	yes	yes	yes
Voltage/Power	220V/200W	220V/250W	220V/500W
Anti-pinch function	With automatic stop anti-pinch function	With automatic stop anti-pinch function	With automatic stop anti-pinch function
Other functions	Removable window + tempered glass safety door	Removable window + tempered glass safety door	Removable window + tempered glass safety door
Exterior Dimension(mm)	460*250*330	460*250*330	460*250*330



Rotator

ES rotators give gentle but effective mixing of

biological samples held in 1.5mL to 50mL tubes, and are used in a variety of applications including immune precipitations, prevention of blood

coagulation, latex diagnostics, etc.

Digital Rotator LCD

ESL58490

Features

- Electronic adjustment of speed and time
- LCD display of speed and time
- Speed range from 10 to 70rpm
- Rolling action, gives gentle but effective mixing
- Adjustable mixing angle from 0 to 90°
- A wide variety of accessories are available

Economical Rotator

ESL58489

Features

- Provides gentle and effective mixing of biological samples
- Adjustable speed range from 0 to 80rpm
- A wide variety of accessories are available



LCD display



Adjustable angle



Wide range of accessories





Specifications	ESL58490	ESL58489
Motor type	DC motor	DC motor
Tilt angle	0-90°	-
Speed range	10-70rpm	0-80rpm
Speed display	LCD	Scale
Timer display	LCD	Scale
Timer	1-1199min	-
Operation mode	Continuous / timer	Continuous
Voltage	100-240V, 50/60Hz	100-240V, 50/60Hz
Power	40W	20W
Dimension [D×W×H]	280×210×300mm	300×220×310mm
Permissible ambient temperature and humidity	5-40°C, 80%RH	5-40°C, 80%RH
Protection class	IP21	IP21

Tube Roller

LCD Digital Tube Roller

ESL58487

Features

- LCD displays the speed and time
- Speed range of 10-70rpm
- Six roller design for gentle rolling and easy to clean
- Continuous or timer operation

Tube Roller

ESL58486

Features

- Speed range of 0-70rpm
- Six roller design for gentle rolling and easy to clean



ES tube rollers provide a gentle and highly efficient rolling motions, ideal for mixing blood samples, viscous substances and liquid-solid suspensions. Used in a variety of applications, such as the prevention of blood coagulation, immune precipitation, etc.



LCD display



Timer





Specifications	ESL58487	ESL58486
Amplitude	24mm	24mm
Motor type	DC motor	DC motor
Rocking motion	Rocking and rolling	Rocking and rolling
Max. load capacity	4kg	4kg
Number of rollers	6	6
Roller size[length]	280mm	280mm
Speed range	10 -70rpm	0-70rpm
Speed display	LCD	Scale
Timer	Yes	-
Timer display	LCD	-
Time setting range	1-1199min	-
Operation mode	Continuous/timer	Continuous
Voltage	100-240V,50/60Hz	100-240V,50/60Hz
Power	30W	25W
Dimension [D×W×H]	450×260×120mm	450×260×120mm
Weight	5.1kg	4.5kg
Permissible ambient temperature and humidity	5-40°C,80%RH	5-40°C,80%RH
Protection class	IP21	IP21









ESL58497/10

ESL58497/4

Features

- Independent LCD display for speed and time
- Compact footprint
- Provides smooth and uniform shaking
- Two options: 7.5 kg (O330) with platform and 2.5kg (O180) with platform speed range 100-500 rpm and 100-800 rpm
- Continuous or timer operation mode
- Maintenance- free brushless DC motor
- Over speed detection and protection
- Wide range of optional platform for flasks, and other popular vessels
- Remote function provides PC control and data transmission
- Free software for PC control & data logging

Suitable for mixing in culture dishes, flasks and beakers. Ideal for aeration and extraction applications. It can be used in environmental chambers and CO2 incubators.



Power

Weight

Permissible ambient

temperature and humidit Dimension[W×D×H]

Protection class

Data connector

12kg

5-40°C,80%RH

370×420×100mm

IP21

RS232

8.1kg

5-40°C,80%RH

300×340×100mm

IP20

RS232

Rocking Shaker Platform Fixed

ESL58499

Features

- Double-screen display for time and speed respectively
- Compact footprint
- Provides smooth and uniform shaking
- Two options:
- 9.8kg (O330-M)and speed range 70-400rpm, 3.1kg (O180-S)and speed range 40-200rpm
- Continuous or timer operation mode
- Maintenance- free brushless DC motor
- Over speed detection and protection



Rocking Shaker Platform LED

ESL58498

Applications

Orbital Shaker is ideal for applications like bacterial suspension, solubility studies, growth of bacteria and yeast, extraction procedures, washing procedures, diagnostics tests, hybridization, general mixing, staining & destaining, mixing, and extracting.

It is suitable for almost any vessel from micro-centrifuge tubes through petri dishes and microplates to conical flasks.

ESL58498



Tel: +44 (0)203 8685740



Qrbital Motion

ESL58498 / ESL58499





Basic Model (fixed plate)

Multifunctional Model (multiple plate are optional)

Specifications	ESL58498	ESL58499
Orbital diameter	20mm	10mm
Max. load capacity (with platform)	2kg	3kg
Motor type	Brushless DC motor	Brushless DC motor
Motor input power	20W	20W
Motor output power	16W	15W
Speed range	40-200rpm	70-400rpm
Speed display	LED	LCD
Timer display	LED	LCD
Time settings range	1min-99h59min	1min-99h59min
Voltage,Frequency	100-240V,50/60Hz	100-240V,50/60Hz
Power	20W	25W
Weight	3.1kg	9.8kg
Permissible ambient	E 40°C 200/DII	F 40% 00%PU
temperature and humidity	5-40°C,80%RH	5-40°C,80%RH
Dimension[W×D×H]	294×348×123mm	420×370×100mm
Protection class	IP21	IP21
Work plate Dimension [W x D]	268x268mm	335×335mm

ESL58500/10

LCD Digital Linear Shaker

Feature

- Efficient Mixing: Employing a linear reciprocating shaking action ensures thorough and even mixing of samples within containers, enhancing experiment reliability and precision.
- Versatile Capacity: Offering two choices with different load capacities, suitable for experiments of various scales and sample handling needs, catering to diverse experimental requirements.
- User-Friendly Operation: The device is equipped with an independent LCD display, simultaneously presenting speed and time, facilitating an intuitive operation, allowing you to effortlessly oversee the experimental process.
- Broad Speed Range: It encompasses a wide speed range, enabling speed adjustment based on specific experimental demands, ensuring optimal outcomes.
- Reliability: Utilizing a maintenance-free brushless DC motor reduces equipment maintenance needs and extends its operational lifespan.
- Safety Measures: Featuring over-speed detection and protection functions, guaranteeing the equipment operates safely within prescribed parameters, mitigating potential issues.
- Diverse Selection: Providing multiple platform options, accommodating various container types and sizes, augmenting flexibility and diversity.

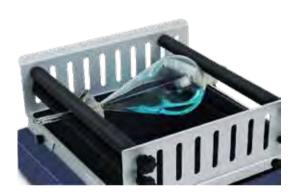
Applications

Suitable for mixing in culture dishes, flasks and beakers. Ideal for aeration and extraction applications.

It can be used in environmental chambers and CO2 incubators.

ESL58500/10





Specifications	ESL58500/10
Amplitude	10mm
Max. load capacity (with platform)	7.5kg
Motor type	Brushless DC motor
Motor input power	28W
Motor output power	15W
Speed range	100-350rpm
Speed display	LCD
Timer display	LCD
Time settings range	1min-99h59min
Voltage, Frequency	100-240V, 50/60Hz
Power	30W
Weight	13.5kg
Permissible ambient temperature and humidity	5-40°C,80%RH
Dimension[W×D×H]	370×420×100mm
Protection class	IP21
Data connector	RS232



Linear Motion





ESL58500/4



ESL58500/20



Linear Motion

Shaker

Digital Linear Shaker LCD

ESL58500/4

Digital Linear Shaker LED

ESL58500/20

Features

- Ensure uniform mixing to enhance experiment reliability and accuracy. Provide different load capacities suitable for experiments of varying scales and sample processing, meeting diverse experimental needs.
- Independent display screen, simultaneously showing speed and time, user-friendly operation for easy control of the experiment process.
- Offer a wide range of speed settings that can be adjusted according to specific experimental requirements to ensure optimal results.
- Maintenance-free brushless DC motor for extended lifespan.
- Equipped with safety speed protection features.
- Provide various platform options to accommodate a variety of container types and sizes, increasing flexibility and versatility (SK-L18O-Pro).

Applications

Suitable for mixing in culture dishes, flasks and beakers. Ideal for aeration and extraction applications. It can be used in environmental chambers and CO2 incubators.

Specifications	ESL58500/4	ESL58500/20
Amplitude	4mm	20mm
Max. load capacity(with platform)	2.5kg	2kg
Motor type	Brushless DC motor	Brushless DC motor
Speed range	100-350rpm	40-200rpm
Speed display	LCD	LED
Timer display	LCD	LED
Time settings range	1min-99h59min	1min-99h59min
Voltage Frequency	100-240V, 50/60Hz	100~240V,50/60Hz
Power	3OW	20W
Motor input power	28W	16W
Motor output power	15W	10W
Weight	8.1kg	3.4kg
Permissible ambient temperature and humidit	5-40°C, 80%RH	5-40° ^C , 80%RH
Dimension[W×D×H]	300X340X100mm	294X348X13Omm
Protection class	IP21	IP2O
Data connector	RS232	-

Digital Rocking Shaker 9" LCD

ESL58501/9

Digital Rocking Shaker 7" LED

ESL58501/7

Features

- Rocking motion angle 9°(R33O-Pro) and 7°(R18O7-S)
- Two options:
- 10kg (R330-Pro)and speed range 10-70rpm, 2kg (R1807-S) and speed range
- 10-80rpm
- Double LCDs/LEDs for independent display of time and speed
- Continuous or timer operation mode
- Electronic time switching clock: 1min-99h59min
- Wide range of platforms for use with a variety of vessels(R33O-Pro)
- Fixed work plate(R18O7-S)
- Simple appearance, save operating space

Applications

Designed for time-dependent and low rpmsensitive shaking applications such as ELISAwashes, enzyme immunoassays, proteinsynthesis, hybridization staining/destaininggels, immune precipitation and Western blots, cell culture, pharmaceutical profiling, etc.



Rocking Motion



ESL58501/9



ESL58501/7

Specifications	ESL58501/9	ESL58501/7
Tilt angle	9°	7 °
Max. load capacity(with platform)	10kg	2kg
Motor type	DC motor	DC motor
Motor input power	40W	2OW
Motor output power	24W	16W
Speed range	10-70rpm	10-80rpm
Speed display	LCD	LED
Timer display	LCD	LED
Time settings range	1min-99h59min	1min-99h59min
Voltage, Frequency	100-240V, 50/60Hz	100-240V, 50/60Hz
Power	5OW	2OW
Weight	9kg	3.1kg
Permissible ambient temperature and humidit	5-40°C,80%RH	5-40° ^C ,80%RH
Dimension[W×D×H]	360×410×200mm	294×348×123mm
Protection class	IP21	IP21





ESL58496/9



ESL58496/10

Digital 3D Shaker LCD

ESL58496/9

ESL58496/10

Features

- Provide a gentle three-dimensional motion shaker at a fixed tilt angle
- Anti slip silicone disc surface, better anti slip effect, and better sample processing effect
- · Adjustable rotational mixing speed
- Independent LCD/LED display of time and speed
- Incubator compatible
- Various platform accessories (D33O9-Pro)

Applications

3D shaker used for uniform shaking mixing in flasks, culture flasks, petri dishes and tubes. Ideal for culturing a variety ofcell cultures, DNA extractions, distributing of cells and gel staining & destaining of cells.

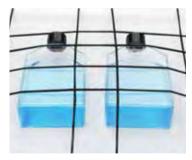


Wide range of accessories



3D Motion

Specifications	ESL58496/9	ESL58496/10
Tilt angle	9°	10°
Max. load capacity(with platform)	5kg	3kg
Motor type	DC motor	Brushless DC motor
Motor input power	40W	16W
Motor output power	24W	10W
Speed range	10-70rpm	10~80rpm
Speed display	LCD	LED
Timer display	LCD	LED
Time settings range	1min-99h59min	1min-99h59min
Voltage,Frequency	100-240V, 50/60Hz	100~240V,50/60Hz
Power	50W	20W
Weight	9kg	3.7kg
Permissible ambient temperature and humidit	5-40°C,80%RH	5-40°C,80%RH
Dimension[W×D×H]	360×430×106mm	294X348X17Omm
Protection class	IP21	IP2O







C-1-11									FSI 58500/20
Cat. No.	Description	ESL58497/10	ESL58500/10	ESL58501/9	ESL58496/9	ESL58499	ESL58497/4	ESL58500/4	ESL58500/20 Multifunctional models
5840155	SK330.5, Dish platform with non-slip mat and fixed string (8pcs) Dimension[WxD]: 30x28.5cm	-	-	•					
58402835	Silicone mattress for 16×5-15mL tubes, use with SK330.5	-	-						
58402846	Silicone mattress for 6× 50mL tubes, use with SK330.5	-	-						
COLONHOC	SK180.4 Dish attachment with non-slip mat Dimension[WxD]: 24x21.5cm						•	•	
58400869	SK330.4 Dish platform with non-slip mat and fixed string(8 pcs), 34X34cm					•			
58400859	SK330.6 Transparent shield, serologic test for syphilis, 41x39.5x8.3cm	-				•			
58400860	SK180.5ransparent Cover for Syphilis Serum Test, 32x32x8.3cm						•	•	
58402852	Silicone mattress for 10× 5-10mL tubes							-	
58402853	Silicone mattress for 4× 50mL tubes						-		-
58400027	SK330.1, Universal attachment with 4 bars Size: 32x32cm Capacity for flask: 25mLx21pcs, 50mLx15pcs, 100mLx12pcs, 250mLx6pcs, 500x4pcs	•		•	•				
	SK330.3 Lengthways roller attachment, Mainly used for separation funnel oscillation extraction applications 500mL*3pcs 250mL*4pcs	-	•	-	-				
5840004O 58400025	100/125mL*4pcs 500mL*5pcs SK180.1, Universal attachment with 3 bars Size: 25x24.5cm Capacity for flask: 25mLx10pcs, 50mLx8pcs, 100mLx6pcs, 250mLx4pcs, 500x2pcs						•		
58400038	SK180.3 Lengthways roller attachment, Mainly used for separation funnel oscillation extraction applications 500mL*2pcs 250mL*3pcs 100/125mL*3pcs 50mL*4pcs						-	-	-



Cat. No.	Description	ESL58497/10	ESL58500/10	ESL58501/9	ESL58496/9	ESL58499 I	ESL58497/4 E	ESL58500/4 ES	SL58500/20 Multi functional models
58400036	Bar for SK330.1 universal attachment	•	•	•	•				
58400037	Bar for SK18O.1 universal attachment						•		٠
58400280	Connect sticks for double dishes shaker		•						-
58400028	SK33O.2, Fixing clip attachment Size: 32 x 32cm								
58400026	SK18O.2, Fixing clip attachment Size: 25 x 24cm							-	
58400029	Fixing clip for flask volume 25mL, used with SK330.2[9pcs] SK180.2[28pcs]	-						-	
58400030	Fixing clip for flask volume 50mL, used with SK330.2[9pcs] SK180.2[16pcs]	-						-	
58400031	Fixing clip for flask volume 100mL, used with SK330.2[9pcs] SK180.2 [16pcs]	-						-	
58400032	Fixing clip for flask volume 200/250mL, used with SK330.2[4pcs] SK180.2[9pcs]								•
58400033	Fixing clip for flask volume 500mL, used with SK330.2[2pcs] SK180.2[9pcs]		-						

Handheld Homogenizer

ESL58464

Features

- Portable, lightweight with ergonomic design ideal for Manual
- operations
- Processing volumes from 0.1-50mL or 1-250mL
- Variable speed from 8,000 to 32,000 rpm
- 316L stainless steel shafts are fully autoclavable
- Interchangeable shafts for easy dismantling and cleaning



Designed for rapidly homogenize, emulsify, suspend and disrupt biological samples like tissue of animal, bacteria, yeast, plant

etc. in liquids. Ideal for samples from 0.1mL to 250mL depending on shaft chosen.



Specifications	ESL58464/5 - ESL58464/10
Speed range	8000-32000rpm
Max linear velocity	6.3m/sec or 14m/sec
Speed level	10 stage
Working volume [H2O]	0.1-50mL(Dispersing shaft ESL58464/5) 1-250mL(Dispersing shaft ESL58464/10)
Max. viscosity	5,000mPas
Material of Dispersing Shaft	SS 316L stainless steel, PTFE
Noise Level	72 dB(A)
Protection class	IP20
Waltana Francisco	110-120V/60Hz
Voltage,Frequency	220-240V/50-60Hz
Power	160W
Motor Type	AC carbon brush motor
Weight	0.54 kg
Dimension [WxDxH]	45mm x 55mm x 190mm

ESL58464/5

Volume 0.1-50mL

Max. Circum. Speed 6.3m/sec Material: 316L stainless steel Application: small amounts of solid liquid mixed

Function: dispersing tool for

solid/liquid media



Cat. No. 58460543

ESL58464/10 Cat. No. 58460815

Volume 0.1-150mL Max. Circum. Speed 10m/sec Material: 316L stainless steel Application: small amounts of solid liquid mixed

Function: dispersing tool for solid/liquid media



ESL58464/10 Cat. No. 58460544

Volume 0.1-250mL Max. Circum. Speed 14m/sec Material: 316L stainless steel Application: small amounts of solid liquid mixed

Function: dispersing tool for solid/liquid media





High Shear Homogenizer

ESL58465

The high shear homogenizer D5OO is applicable to various tasks from sample preparation to formulation study. The motor drives the rotor to rotate at high speed, and the sample is homogenized or dispersed by the gap between the rotor and stator, usually in a short period of time.

Features

High quality 316L stainless steel with corrosion and autoclave resistance Rotor with simple design can be dismounted, cleaned, and sterilized conveniently

6 speed levels

Applicable for sample with viscosity up to 10000mPa·s
Replaceable rotors and stators sharing the same shaft, cost-effective
Automatic overload protection mechanism maximizes the working life of motor.

Smooth motor start, stable acceleration without spillage risk

Applications

Widely applied for histocyte lysis, cell homogenization, emulsion, nanometer scale dispersion process in biology, pharmaceutical, genetic and pathology study, diary product or fruit homogenization, polymerization reaction, production of fragrance, cosmetics, textile auxiliary, food, ink, paints, asphalt, fine chemicals, agricultural chemicals, and analysis in mineral exploration, environmental protection and energy resource exploration.

	Specifications	ESL58465
	Speed range	10000-30000rpm
	Max linear velocity	22.7-36m/sec
	Speed Level	6 stage
zation,	Working volume	10-4000mL
	Max. viscosity	10000mPa·s
on	Material of dispersing shaft	SS 316L stainless steel, PTFE
	Noise Level	79dB(A)
ion	Protection class	IP2O
	Voltage, frequency	110-120V/60Hz, 220-240V/50-60Hz
	Power	500W
	Motor type	AC carbon brush motor
study	Dimension [WxDxH]	75x75x280mm
m pills	Weight	1.7kg
	Permissible ambient temperature and humidity	O-40℃, 85%RH

- Routine homogenization, emulsion, depolymerization, dispersion application
- Disperse substance to form suspension and emulsion
- Disperse pigment and resin
- Disperse animal or human tissue into various solution
- Facilitate the dissolve of solid substances
- Sample preparation for quality control test
- Animal or plant cell lysis
- Emulsion, cream cosmetics, and food formulation study
- Extraction of active pharmaceutical ingredient from pills and tablets



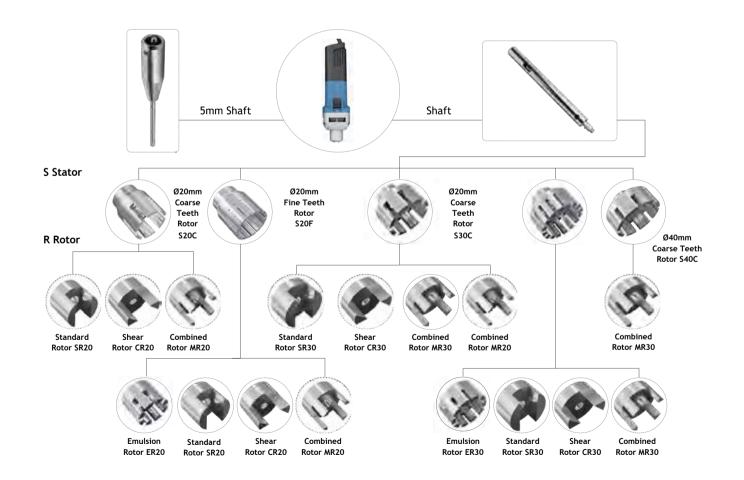


Dispersion Head Selection Guide

Material: All dispersion head components are made of high quality 316L stainless steel to ensure the mechanical performance while rotating at high speed of 30000rpm.

Bearing: Made of excellent material, the bearing is sturdy, durable and corrosion resistance. Its mechanical performance and chemical characteristics are stable.

Easy to clean: The dispersion head is designed to be easily dismantled and thus cleaned. The components can be cleaned manually or automatically, and can be autoclaved. Even the precision components can be removed to clean.



Tel: +44 (0)203 8685740



ESL58465/1 Cat No.58461331

Solid and liquid dispersion
Volume 10-5000mL
Max. circum. Speed 22.7m/sec
General purpose
Emulsion granularity range 1-10µm
Suspension granularity range 10-50µm



ESL58465/2 Cat No. 58461332

Emulsion
Volume 10-5000mL
Max. circum. Speed 22.7m/sec
General purpose
Emulsion granularity range 1-10µm
Suspension granularity range 10-50µm



ESL58465/5 Cat No. 58460117

Small amounts of solid and liquid dispersion Volume 1-50mL

Max. circum. Speed 5.8m/sec Compatible with 5mm stator and 3.8mm rotor

Special design for 1-50mL tissue homogenization, mixing and suspension in Eppendorf tube, tube strip and centrifuge tubes for clinical and diagnostic application

Stato	or & Rotor	Purpose	Working Volume	Max. circum. Speed	Rotor Dia.	Stator Dia.	Min./Max.	Granu	larity (µm)	Application
Comb	oinations	Fui pose	mL	m/s	m m	m m	Immersion Depth	Suspension	Emulsion	Аррисации
58461331	SS20CSR20	Solid-liquid mix	10-5000	23.5	15	20	40/170	10-50	1-10	P,CI,PC,SD
58460205 58460215	S20C CR20	Fiber	10-5000	23.5	15	20	40/170	10-50	1-10	SP,M,F,PT,TI
58460205 58460216	S20C MR20	Solid-liquid mix	10-5000	23.5	15	20	40/170	10-50	1-10	CI,PI
58461332	SS20FER20	Emulsion	10-5000	23.5	15	20	40/170	10-50	1-10	SP,PI,PT,P
58460206 58460215	S20F CR20	Fiber	10-5000	23.5	15	20	40/170	10-50	1-10	SP,BT,M,F,PT,TI
58460206 58460216	S20F MR20	Solid-liquid mix	10-5000	23.5	15	20	40/170	10-50	1-10	CI,C,PI,F,PT,PC
58460213 58460216	S30C MR20	As stirring paddle	250-20000	36.1	15	30	40/170	High spee	d mixing	CI,F,SP
58460213 58460208	S30C SR30	Solid-liquid mix	100-8000	36.1	23	30	40/170	5-25	1-5	SP,M,F,PT,P
58460213 58460209	\$30C CR30	Fiber	100-8000	36.1	23	30	40/170	5-25	1-5	SP,M,F,PT,P
58460213 58460229	S30C MR30	Solid-liquid mix	100-8000	36.1	23	30	40/170	5-25	1-5	CI,PI
58460228 58460208	S30F SR30	Solid-liquid mix	100-8000	36.1	23	30	40/170	5-25	1-5	SP,PI,PT,P
58460228 58460212	S30F ER30	Emulsion	100-8000	36.1	23	30	40/170	5-25	1-5	SP,PI,PT,P
58460228 58460229	S30F MR30	Solid-liquid mix	100-8000	36.1	23	30	40/170	5-25	1-5	CI,C,P,F,DT,TI
58460214 58460229	S40C MR30	As stirring paddle	1000-40000	36.1	23	40	40/170	High spee	d mixing	CI,F,SP
58460117	SS5CSR5	Small amount solid-liquid mix	1-50	6.3	4	5	40/60	10-50	1-10	вт,м

Note:

BT: Biotech; F: Food; P: Pharmaceutics; C: Cosmetics; M: Medicine Analysis; PC: Petroleum Chemistry; PT: Paper and Pulp Industry; SP: Sewage Treatment; CI: Ceramic Industry; CH: Chemical Industry; PI: Paints Industry; TI: Tabacco Industry The common combinations of rotor and stator are listed in the table above. Dispersion head can be mounted on the homogenizer main body and fixed on the holder with fixtures. All the components of dispersion head can be sterilized with all usual methods (including chemicals, autoclave, etc.)



LCD Digital Overhead Stirrer

ESL58466C ESL58467C ESL58468C

> EDU Science Overhead Stirrers are competent for most demanding tasks with guaranteed safety and performance.

They are widely used in chemical synthesis, pharmaceutical synthesis, physical and chemical analysis, petrochemical industries, etc



Specifications	ESL58466C	ESL58467C	ESL58468C
Max. stirring quantity[H2O]	20 L	40 L	70 L
Speed range	50~2200rpm	50~2200rpm	50~1100rpm
Speed display accuracy	±3rpm	±3rpm	±10rpm
Time settings range			0-99h59min
Max. torque	40N·cm	60N·cm	300N·cm
Viscosity max.	10000mPa·s	50000mPa·s	100000mPa·s
Weight	2.8kg	2.8kg	3.2kg
Motor type	Brushless DC motor	Brushless DC motor	Brushless DC motor
Voltage,Frequency	100~240V, 50/60 Hz	100~240V, 50/60 Hz	100~240V, 50/60 Hz
Speed display	LCD	LCD	LCD
Torque display	LCD	LCD	LCD
Overload protection display	LCD	LCD	LCD
Chuck clamp range diameter	0.5~10mm	0.5~10mm	0.5~10mm
Motor input/output power	60W/50W	120W/100W	180W/160W
Power	70W	130W	200W
Dimension[WxHxD]	83 x 220 x 186mm	83 x 220 x 186mm	83 x 220 x 186mm
Protection class	IP21	IP21	IP21
Permissible ambient temperature and humidity	5~40°C,80%RH	5~40°C,80%RH	5~40°C,80%RH
Data interface	RS232	RS232	RS232



Tel: +44 (0)203 8685740



LED Overhead Stirrer

ESL58466 ESL58467

Features

- High reliability and outstanding performance
- Wide range of speed from 50 to 2200rpm
- Brushless DC motor for long life, maintenance free and explosion proof
- LED screen for monitoring actual speed
- Safety circuits allow for safe stop function in anti-stall or overload conditions
- Large chuck diameter for many shaft types

Set of Overhead Stirrer tools

Cat.No. 58460743



Contains one vertical rod, six stirring blades Such as Propeller stirrer Paddle stirrer Centrifugal stirrer Flat-blade stirrer Radial-flow stirrer Anchor stirrer and Disassembling tool

Plate Stands

Universal Plate Stand for ESL58466-ESL58467

Cat. No. 58460605

Dimension [W x D x H]: 20x31x78cm Material: cast iron

> Universal Plate Stand (for OS20/40/70)

Cat. No.58460497



Dimension [W \times D \times H] : 3.5 \times 46.3 \times 78cm

Material: cast iron

Specifications	ESL58466	ESL58467
Max. stirring quantity[H2O]	20 L	40 L
Speed range	50~2200rpm	50~2200rpm
Max. torque	40N·cm	60N·cm
Viscosity max.	10000mPa·s	50000mPa·s
Motor type	Brushless DC motor	Brushless DC motor
Speed display	LED	LED
Overload protection display	LED	LED
Chuck range diameter	0.5~10mm	0.5~10mm
Motor input power	60W	120W
Motor output power	50W	100W
Power	70W	130W
Voltage, Frequency	100~240V, 50/60 Hz	100~240V, 50/60 Hz
Dimension[WxHxD]	83 x 220 x 186mm	83 x 220 x 186mm
Protection class	IP21	IP21
Weight	2.8kg	2.8kg
Permissible ambient temperature and humidity	5~40°C,80%RH	5~40°C,80%RH

ES Overhead Stirrer provides a variety of stirring tools, such as impellers, paddles and blades:

Propeller stirrer	Cat. No. 58460071	Paddle stirrer	Cat. No. 58460073
Shaft length: 40cm Stirrer diameter: 5 cm Shaft diameter: Ø8 mm Material: 316L stainless steel Standard stirring applications at medium and high speed		Shaft length: 40 cm Stirrer diameter: 6.8 cm Shaft diameter: Ø 8 mm Material: 316 L stainless steel For gentle mixing at low and medium speeds	
Straight stirrer	Cat. No.58460072	Centrifugal stirrer	Cat. No. 58460074
Shaft length: 40 cm Stirrer diameter: 4 cm Shaft diameter: Ø8 mm Material: 31cl stainless steel Standard stirring applications at medium and high speed		Shaft length: 40 cm Stirrer diameter: 9 cm Shaft diameter: Ø 8 mm Material: 316 L stainless steel Blades open while speeding. For narrow neck vessels at medium to high speed.	
Propeller stirrer	Cat. No. 5846075	Paddle stirrer	Cat. No. 58460077
Shaft length: 35 cm Stirrer diameter: 6.5 cm Shaft diameter: Ø 8 mm Material: PTFE coated Standard stirring applications at medium and high speed	-	Shaft length: 35 cm Stirrer diameter: 6.8 cm Shaft diameter: Ø8 mm Material: PTFE coated For gentle mixing at low and medium speeds	
Straight stirrer	Cat. No. 58460476	Centrifugal stirrer	Cat. No. 58460478
Shaft length: 35 cm Stirrer diameter: 7 cm Shaft diameter: Ø8 mm Material: 316L stainless steel Standard stirring applications at medium and high speed		Shaft length: 35 cm Stirrer diameter: 8.5 cm Shaft diameter: Ø8 mm Material: PTFE coated Blades open while speeding. For narrow neck vessels at medium to high speed.	-
Grand propeller stirrer	Cat. No. 58460478	Grand paddle stirrer	Cat. No. 58460499
Shaft length: 60 cm Stirrer diameter: 10 cm Shaft diameter: Ø8 mm Material: 316 L stainless steel Standard stirring	1	Shaft length: 60 cm Stirrer diameter: 10 cm Shaft diameter: Ø8 mm Material: 316 L stainless steel Gentle mixing for those stratify easily or sensitive to shear	Page 1
Grand anchor stirrer	Cat. No. 58460698	Grand dissolving stirrer	Cat. No. 58460500
Shaft length: 60 cm Stirrer diameter: 10 cm Shaft diameter: Ø8 mm Material: 316 L stainless steel Standard stirring or for those easily precipitate		Shaft length: 60 cm Stirrer diameter: 10 cm Shaft diameter: Ø8 mm Material: 316 L stainless steel Breaking down granules in the mixture with strong shear	
Flat-blade stirrer	Cat. No. 58460625	Anchor stirrer	Cat. No. 58460627
Shaft length: 40 cm Stirrer diameter: 6 cm Shaft diameter: Ø8 mm Material: 316L stainless steel Suitable for medium speed stirring, low viscosity and medium viscosity materials		Shaft length: 40 cm Stirrer diameter: 6 cm Shaft diameter: 08 mm Material: 316L stainless steel Suitable for low speed stirring, medium viscosity and high viscosity materials	
Radial-flow stirrer	Cat. No. 58460626	Spiral stirrer	Cat. No. 58460628
Shaft length: 40 cm Stirrer diameter: 5 cm Shaft diameter: Ø8 mm Material: 316L stainless steel Suitable for medium speed or high speed agitation, low viscosity or medium viscosity materials, recommended for the treatment of gas in liquid		Shaft length: 40 cm Stirrer diameter: 5 cm Shaft diameter: 98 mm Material: 316L stainless steel Suitable for medium speed or high speed agitation, medium viscosity and high viscosity materials, recommended for liquid homogenization or suspension treatment	



Tel: +44 (0)203 8685740



Micro Centrifuge

ESL58503

Features

- Ideal for microfiltration and quick spin-down application
- Easy to operate. Lid close, it begin to rotate
- Max up to 7000rpm
- Compatible with 2mLx8 and PCR8x4 rotors
- Quiet running, noise level ≤45dB
- Quick-change rotor without any tool
- Accelerates and brakes in seconds
- Available in two colors i.e., green, blue
- Safe, endurable and robust rotor with clamp locking design



Quiet operation



Vibration free

Specifications	ESL58503	
Max. Speed	7000rpm	
Max. RCF	2680xg	
Rotor Capacity	0.2/0.5/1.5/2.0mLx8; 0.2mLx32 PCR strips or 0.2mLx4 PCR 8 strips	
Run Time	Continuous operation	
Driving Motor	DC motor	
Power	AC100-240V/50Hz/60Hz 20W	
Noise Level	<45dB	
Dimension [DxWxH]	160x170x122mm	
Weight	1.19kg	
Certification	CE cTUV us FCC MCA	





ESA8-2P

Max. speed:7000rpm Max. RCF:2680×g Rotor capacity:2mL/1.5mL×8,0.2mL×8,0.5mL×8 Rotor material:High strength plastic Available rotor adapters:SA02P2, SA05P2



ESA04-RCR8

Max. speed:7000rpm Max. RCF:2680 \times g Rotor 0.2 ml \times 32 PCR strips, 0.2 ml \times 4 PCR 8 strips Rotor material: High strength plastic



ESA02P2

0.2mL rotor adapter Used with A08-2 rotor 8pcs/pk



ESA05P2

0.5mL rotor adapter Used with A08-2 rotor 8pcs/pk



Low-speed Centrifuge

ESL58507

Features

- Speed range from 300-5000rpm;
- Rotor speed can be set and displayed by RPM or G-force;
- Defined program by knob will be stored and activated when power on;
- Two programs P1/P2, easy to start the procedure by one key;
- Two deceleration speeds setting to meet different requirements;
- Easy-to-read processing display and sound alert;
- Automatic lid-lock release after running;
- Maintenance-free brushless DC motor.

Specifications	ESL58507	
Speed Range	300-5000rpm, increment:10rpn	
Max. RCF	2350xg, increment: 10g	
Speed accuracy	+20rpm	
Rotor capacity	6x15mL/10mL/7mL/1.5-5ml	
Run Time	30sec-99min, HD (continuous running)	
Display	LCD	
Programs Memory	2	
Acceleration/Deceleration	1121	
Safety Devices	Door interlock, Over speed detector, Automatic internal diagnosis	
Motor	Brushless DC motor	
Power	Single-phase, 100V-240V,50Hz/60Hz, 70W	
Dimension(WxDxH)	300X240X180mm	
Weight	5.2kg	
Advanced features	Speed/RCF switch; sound-alert function	





Available adapters



ES5P17 5ml adapter, Adapted to 13×75mm blood collection tube



ES2P171.5/2ml Cryogenic Vials/ centrifuge tube adapter

 $EduScience\ uk\ ESL-506\ low-speed\ centrifuge,\ supplied\ with\ built\ in\ fixed\ angle\ rotor\ ESA6-15P\ which\ c\ an\ holdup\ o\ 5mL\ /10mL/7m$



High Speed Mini Centrifuge

ESL58508

LCD

Features

- Speed up to 15000rpm (15100×g)
- Brushless DC motor drive quickly to the target speed
- Quiet working, Low noise ≤54dB
- ESL-2012 Pro is proven by IEC/EN 61010-1
- \bullet ESL-2012 Pro passed the rigorous explosion-proof test according to IEC/ E/V 61010-2-20. It is certified with CE, cTÜVus, FCC



Specifications	ESL58508	
Max. Speed	15000rpm(500-15000rpm), increment: 100rpm	
Max. RCF	15100×g, increment: 100×g	
Speed Accuracy	±20rpm	
Rotor Capacity	0.2mL/0.5mL/1.5mL/2mL×12	
Run Time	30sec-99min/Continuous	
Acceleration /Braking time	11s↑/9s↓	
Driving Motor	Brushless DC motor	
Safety Devices	Door interlock, Over-speed detection, Over-temperature detection, Automatic internal diagnosis	
Power	Single-phase, AC100V-240V, 50Hz/60Hz, 3A 100W	
Noise level	≤54dB	
Dimension [D×W×H]	255×245×140mm	
Weight	6kg	
Certification	EMC, CE, FCC, ICES, cTUVus, CB	



Available Rotors



A12-2Pfor ESL2012Pro only

Max. speed: 15000rpm Max. RCF: 15100×g Rotor capacity: 2mL/1.5mL×12,0.2mL×12,0.5mL×12 Rotor material: High strength plastic Available rotor adapters: A02P2,A05P2

Available Adapters



A02P2

0.2mL rotor adapter
Used with A12-2, A12-2P, AS24-2 and A24-2P rotors 24 pcs/pk

A05P2

0.5mL rotor adapter Used with A12-2,A12-2P, AS24-2 and A24-2P rotors 24 pcs/pk





Centrifuge Basic

Speed range of 300-4500rpm, Individual control of speed and time, Faster acceleration and deceleration, Perfectly suitable for 15mL cell culture tubes and a full line of collection tubes , Specifications , Speed Range 300-4500rpm,increment: 100rpm, Max. RCF 2490×g, Speed accuracy ±100rpm, Rotor Capacity 1 type, Run Time 1sec-99min HOLD(Continuous operation), Motor DC motor, Display LED, Safety Devices Door interlock,Over-speed detection, Acceleration, /Braking time [Sec] 23s 23s Power Single-phase,220V-240V,50Hz/60Hz, 3A;100V-120V,50Hz/60Hz, 3A 70W,

Dimension: [D×W×H] 301×354×217mm

Weight: 6kg, Advanced Features sound-alert function.

ESL58504



Centrifuge Basic LCD

Easy programming to achieve high accuracy of speed control, Easy operation with intuitive menu and easy-to-read display

Rotor speed can be set and displayed by RPM or G-force, Maintenance-free brush-less DC motors, Quick spin function with press and hold pulse key, Lid with electric lock and automatic release function saves processing time and prevents samples overheating

Automatic self-diagnosis on start up showing accumulative running time and last running parameters, Braking time 2 gears adjustable(for A6-50P rotor), A12-10P and A6-50P are not interchangeable,

Specifications

Speed Range 300-4500rpm,increment: 100rpm, Max. RCF 2490 \times g, Speed accuracy \pm 20rpm, Rotor Capacity 1 type, Run Time 30sec-99min/Continuous, Motor Brush-less DC motor, Display LCD , Safety Devices Door interlock,Overspeed detector; Automatic internal diagnosis, Acceleration /Braking time [Sec] 20s 13s , Power Single-phase, 110V-240V,50Hz/60Hz, 3A, 70W

Dimension : [D×W×H] 301×354×217mm

Weight: 6kg, Certification CE, UL, IVD, Advanced Features Speed/RCF switch; Short-time run function; sound-alert function





Hematocrit Centrifuge

ESL58514

Features

- Speed range of 200-12000 rpm Precise and independent control of speed and time
- · Easy operation with intuitive menu and LCD display
- Maintenance-free brushless DC motor
- Pulse operation for fast and convenient quick spins
- Advance features include speed/RCF switch; short-time run function; audible alert function
- Safety features include door interlock, over speed detector; over-temperature detector; automatic internal diagnosis and automatic rotor identification

Hematocrit Centrifuge

ESL58515

Features

Speed range of 500-12000 rpm - Precise control of speed and time Maintenance-free brushless DC motors -Door interlock

Applications

ES hematocrit centrifuges are used for determination of erythrocyte fractions in blood as well as micro solution separations. It provides hematocrit values (HCT) for testing in biochemistry, immunity, genetics, blood separation and for general clinical tests for diagnostic purposes and also for dope tests. They have special applications for the photometric determination of bilirubin content in neonate blood samples. They are suitable for extraction of DNA and RNA. Veterinary clinics and Vitamins testing for Infants.



Specifications	ESL58514	ESL58515
Speed Range	200-12000rpm, increment: 10rpm	500-12000rpm, increment: 100rpm
Max. RCF	13680×g	13680×g
Speed Accuracy	±20	±100
Run Time	30sec-99min/Continuous	30sec-99min/Continuous
Motor	Brushless DC motor	Brushless DC motor
Display	LCD	LCD
Safety Devices	Door interlock, Overspeed detector; Automatic internal diagnosis, Automatic rotor identification	Door interlock
Acceleration/Braking time	30s↑30s↓	40s↑40s↓
Power Requirements	Single-phase, 200V-240V,50Hz/60Hz, 5A; 100V-120V,50Hz/60Hz,5A 160W	Single-phase, 200V-240V,50Hz/60Hz, 5A 380W
Dimension(WxDxH)	280×364×274mm	280×364×213mm
Weight	10.5kg	8.5Kg
Advanced features	Speed/RCF switch;Short-time run function; sound-alert function	Speed/RCF switch;Short-time run function; sound-alert function

Available rotors

AC24 Cat. No.58510047

ESL58514 & ESL58515

Max. speed: 12000rpm Max. RCF: 13680×g

Rotor capacity: capillary tubes x24 Rotor material: High strength aluminum















Brushless DC motor



Wide range of rotors

High Speed Micro Centrifuge

ESL58509 ESL58510

Unique Features

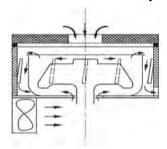
Patent multi-flow air cooling design to provide air exchange to prevent chamber warming

Three-layer seal ensure airtightness and biosafety

 $\label{thm:light} \mbox{High strength aluminum alloy rotor can be fully autoclaved for \ unlimited service life}$

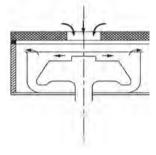
Four rotors are optional complete with 24 places 1.5/2.0mL tubes, bigger 5.0mL, smaller 0.2mL and 0.5mL tubes with adapters

Effective Ventilation System Co



Proprietary design of dual path ventilation enforcing air cooling from both the upper and lower side for the rotor.

Conventional design



Limiting ventilation on the upper side of the rotor









Brushless DC motor



Wide range of rotors

Specifications	ESL58509	ESL58510
Max. Speed	15000rpm(200-15000rpm), increment:10rpm	15000rpm(200-15000rpm), increment:10rpm
Max.RCF	21380xg, increment:10xg	21380xg, increment: 10xg
Speed Accuracy	+20 rpm	+20 rpm
Temperature Range	-	-20°C-40°C
	5mLx18, 5mL culture tubex12	5mLx18, 5mL culture tubex12
Rotor Capacity	0.2mL/0.5mL/1.5mL/ 2mLx24, 0.5mLx36,PCR8x4	0.2mL/0.5mL/1.5mL/ 2mLx24, 0.5mLx36,PCR8x4
Run Time	30sec-99min/Continuous	30sec-99min/Continuous
Motor	Brushless DC motor	Brushless DC motor
Safety Devices	Dual door interlock, Over-speed detection, Automatic internal diagnosis	Dual door interlock, Over-speed detection, Over-temperature detection, Automatic internal diagnosis
Power	Single-phase, AC200V-400V, 50Hz/60Hz, 5A, AC100V- 120V, 50Hz/60Hz, 8A 200W	Single-phase, AC200V-240V, 50Hz/60Hz, 10A, AC100V-120V,50Hz/60Hz, 10A 400W
Acceleration /Braking time [Sec]	25s↑25s↓	25s ↑ 25s↓
Dimension[WxDxH]	280x364x266mm	338x580x324mm
Weight	12kg	30kg
Certification	CE cTÜVus FCC MCA	CE cTÜVus FCC MCA
Advanced Features	Speed/RCF switch; Short-time run function; sound-alert function	Speed/RCF switch; Short-time run function; sound-alert function
Noise Level	≦64dB	≤56dB



ES Rotors are manufactured from military- industrial grade aluminum alloy with high mechanical strength for precise running and safety (excludes ES2012 plus rotor)

- Every rotor can reach a max. speed of 15000rpm
- Rotors are seated on a tapered shaft, concentric and self-aligning, perfect to achieve running stability at high speeds
- ES3024 &ES3024R with bio-safety rotors/ anti-sample overflow prevents accidental leakage and risk free centrifugal process
- microbial contamination. ES3024&ES3024R rotors have passed MCA test according to IEC/EN61010-2-20, including mechanical safety and bio-safety tests
- High strength aluminum alloy rotors are fully autoclavable and provide unlimited service life (ES2012 plus rotor not included)
- Powerful cooling system minimizes rotor heating. ES3024 rotors heat up to $> 10^\circ$ Cand D2012 rotors less than 8° C after running an hour

Rotor Features

Fully autoclavable

High strength aluminum alloy rotors are fully autoclavable, withstanding steam sterilizing at 121°C for 20 minutes, with unlimited service life.

Bio-safety

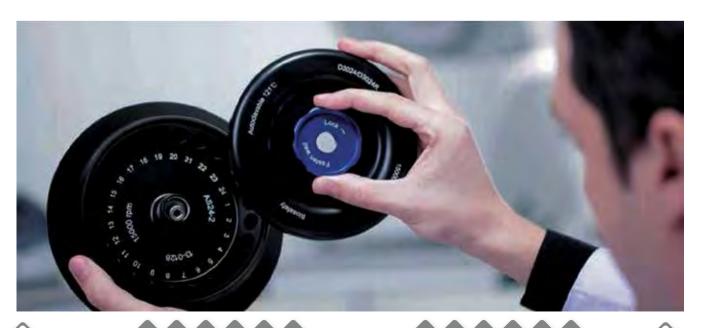
Aspired to be the top-of-the-line model, ES3024 & ES3024R rotors are designed to prevent sample leakage. Each and every rotor is hermetically sealed by three rubber seals.

Mechanical safety

ES centrifuges are constructed under MCA conditions according to IEC/ EN61010-2-20, causing disruption by partially cutting and overloading rotor assembly, and guarantee that no part shall be detached to cause danger to person or the environment.

Three rubber seals fitted to achieve bio-safe condition

Tel: +44 (0)203 8685740





Rotors and Adapters

SU CO

Available Rotors

ES24-2 for ES3024 & ES3024R

 $\label{eq:max.RCF:21380xg} Max.\,RCF:21380\times g\\ Rotor\,capacity:\,2mL/1.5mL\times24/0.2mL\times24/0.5mL\times24\,\,Rotor$

material: Aluminum alloy Bio-safe(Bio sealing): Yes

Available rotor adapters: A02P2,A05P2



ES12-V5 for ES3024 & ES3024R

Max. speed: 15000rpm Max. RCF: $21380\times g$ Rotor capacity: $5mL\times 12$ (Eppendorf tube) Rotor material: Aluminum alloy

Bio-safe(Bio sealing): Yes



ES36-05 for ES3024 & ES3024R

Max. speed: 15000rpm Max. RCF: 21380 \times g

Rotor capacity: $0.5mL \times 36, 0.2mL \times 36$ Rotor material:

Aluminum alloy

Bio-safe(Bio sealing): Yes Available rotor adapters: A02P05



ESS4-PCR8 for ES3024 & ES3024R

Max. speed: 15000rpm Max. RCF: 21380×g Rotor capacity:0.2mL/PCR8×4 Rotor material: Aluminum alloy Bio-safe(Bio sealing): Yes



Rotors and Adapters



ES18-5

for ES3024 & ES3024R

Max. speed :15000rpm Max. RCF:21380×g
Rotor capacity:5mL×18 (Round-Botton tube) Rotor material:Aluminum alloy
Bio-safe(Bio sealing):Yes

Available Rotors



ES02P2

0.2mL rotor adapter Used with ES12-2, ES12-2P, ES24-2 and ES24-2P rotors 24pcs/pk



ES05P2

0.5mL rotor adapter
Used with ES12-2, ES12-2P, ES24-2 and ES24-2P rotors 24pcs/pk



ES02P05

0.2mL rotor adapter Used with ES36-05 rotor 36pcs/pk





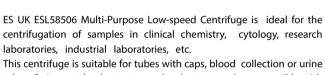
Multi-Purpose Low-speed Centrifuge

ESL58506



Features

- Speed can be set from 300-6000rpm
- Maximum capacity of the centrifuge: 100 mLx4
- 9 Acceleration/10 Brake speed settings to ensure optimal separation
- A wide range of rotors optional(fixed angle and swing-out bucket rotors)
- Automatic rotor identification
- •Timers can be set up to 99 min or HD for contionous running
- Pulse Key for quick spin function
- 9 procedures stored in memory makes the operation much simplified
- Maintenance-free brushless DC motors



This centrifuge is suitable for tubes with caps, blood collection or urine tubes. Swing-out bucket rotors and adapters can be compatible with standard tubes up to 100 mL at low speed.



Specifications	ESL58506		
Speed range	300-6000rpm increment:10rpm		
Max. RCF	4020xg		
Speed accuracy	±20rpm		
Max. Capacity	100mLx4		
Run Time	30sec-99mins/continuous		
Motor	Brushless DC		
Display	LCD		
Program Memory	9		
Safety Devices	Door Imbalance protection Over speed & Over temperature detection		
Acceleration/Deceleration	9↑/10↓steps		
Power	660W; Single-phase AC220V-240V, 50Hz/60Hz, 6.3A; AC110V-120V,50Hz/60Hz,10A		
Dimension[WxDxH]	445x579x269mm		
Weight	36kg		
Certification	CE		
Advanced features	speed/rcf switch; Rotor identification		





Uncapping block

for S4-100 rotor

58500045

SE4-100

for ESL58506

Max. speed: 4000rpm Max. RCF: 2950×g

Rotor material: stainless steel body and adapter

58500041



A15V

15ml conical tube adapter, MOQ 8 Pcs (optional)







19400044



19400043



19400042

	1740	0073		17700077		17400043			17700072		
bucket						x 4					
tube	хЗ	36		x 16		x 8	x 4	x 4	x 4	x 8	x 20
Nominal volume	3-7	mL	10mL	12mL	15mL	50mL	100mL	85mL	50mL	15mL	3-7mL
ф×L mm	13×75	13×100	16×100	17×105	17×120	29.5×100	38×108	38×104	29.5×100	17×120 13×100 13×75	13×100 13×75
tube										\bigvee	
adapter	with plug				L	. A50V	A100	0P80	A100P50	(i) A100P15	A100P10
Package	36		1			8		4	4	8	4
Tubes per rotor	36	36	16	16	16	8	4	4	4	8	20
Radius(cm)	14	16.5	15.9	15.9	15.9	15.9	; 15.9	15.9	; 15.9	15.1	: 14.7
Max RCF (g-force)	2500	2950	2840	2840	2840	2840	2840	2840	2840	2700	2630



Available Rotors



ES2-MP for ESL58506

Max. speed: 4000rpm Max. RCF: 2200×g

Rotor capacity: Micro-plates 384-PCR/96-PCR/Elisa

plates×8pcs; Deep well plates×4pcs

Rotor materia I: stainless steel body and aluminum buckets

58500062



ES12-PCR8 for ESL58506

Max. speed : 6000rpm Max. RCF : 4020×g

Rotor capacity: PCR 8 trips×12 Rotor material: aluminum

Biosealing: Yes

58500036



ES30-2 for ESL58506

Max. speed: 6000rpm Max. RCF: 4020×g Rotor capacity: 2mL×30 Rotor material: aluminum

Biosealing: Yes

58500034



ES60-2 for ESL58506

Max. speed: 6000rpm Max. RCF: 4020×g Rotor capacity: 2mL×60 Rotor material: aluminum Biosealing: Yes





Available Rotors

ES6-50V (cone bottom) for ESL58506

Max. speed: 6000rpm Max. RCF: 4020×g Rotor capacity: 50mL×6 or 15mL×6 Rotor material: aluminum Biosealing: Yes

58500038



ES18-5V (cone bottom) for ESL58506

Max. speed: 6000rpm Max. RCF: 4020×g

Rotor capacity: 5mL×18

Rotor material: stainless steel body and aluminum buckets

Biosealing: Yes

58500035



E8-50 (round bottom) for ESL58506

Max. speed: 5000rpm Max. RCF: 3960xg Rotor capacity: 50mL×8 or 15mLx16 Rotor material: aluminum body and stainless steel adapter Default adapters: SE100P31x8, SE100P17x6

58500039



E30-15 (round bottom) for ESL58506

Tel: +44 (0)203 8685740

Max. speed: 4500rpm Max. RCF: 3210xg

Rotor capacity: $15mL \times 30$

Rotor material: aluminum body and stainless steel

adapter Bio-safe(Biosealing): Yes Default adapters: SE100P17x30

Rotor	Capacity	Hole Diameter (mm)	Hole Depth (mm)	Max. Tube Height (mm)	Max. Speed (rpm)
AS30-2	2mlx30	11.2	39	43	6000
AS60-2	2mlx60	11.2	39	43	6000
AS6-50V	50mlx6	31	87.8	118	6000
AS18-5V	5mlx18	17.5	51	56	6000
A8-50	50mlx8	35	85.8	118	5000
A6-50	15mlx16	17.5	98	123	3000
A30-15	15mlx30	17.5	98	123	4500
S2-MP	Micro platex8/ Deep well	-	-	-	4000



Multi-Purpose low Speed Centrifuge

LCD ESL58518 / LED ESL58519

Features

- Quiet, compact, and convenient with LCD display
- Maximum up to 4000rpm Speed can be set in RPM/RCF, with 3 customizable routine programs (Blood, Urine & Faecal)
- 3 acceleration level & 4 level deceleration
- Maximum capacity 50mL ×4, Accommodating different sizes of blood collection tubes and centrifuge tubes suitable for swing out rotor and angle rotor
- Automatic internal diagnosis and self-detection
- Maintenance-free brushless DC motor
- Applications
- Multi-purpose low speed centrifuge are versatile and can be used in applications from clinical to biochemical for qualitative analysis of serum, plasma, blood, and urine.



Specifications	ESL58519	ESL58518
Speed Range	500 - 4000 rpm increment: 100rpm	300 - 4000 rpm increment: 100rpm
Max. RCF	2350 x g	1900 x g
Speed accuracy	±100 rpm	±100 rpm
Rotor capacity	Swing 6×15mL Swing 4×50 mL Angle 24×15mL Angle 12×10 mL/8×15mL	Angel 8×15mL(Default), Angel 12×10mL
Run Time	1-99min, HOLD	1-99min, HOLD
Motor	Brushless DC motor	Brushless DC motor
Display	LCD	LED
Program	Blood: 3200rpm,10min. Urine: 1800rpm,5min. Faecal: 1300rpm,10min.	Blood: 3200rpm,10min. Urine: 1800rpm,5min. Faecal: 1300rpm,10min.
Safety Devices	Automatic internal diagnosis	Automatic internal diagnosis
Acceleration/deceleration	3↑4↓steps	25s↑35s↓
Power Requirements	Single phase. 100-240V. 50Hz/60Hz. 110W	Single phase. 100-240V,50Hz/60Hz,85W
Power	364×440×268mm	286×367×227mm
Weight	14.5kg	9.2kg
Noise Level	≤62dB(A)	≤60dB(A)



Available rotors

S6-15

Cat. No. 58519082

for ESL58519

Max. speed: 44000rpm

Rotor capacity: 15mL×6

Rotor material: Aluminum alloy

Default adaptor: A15P22, A5P17



A12-10P

Cat. No. 58581/9068

for ESL58519/ESL58518

Max.speed: 4000rpm

Rotor capacity: 8×15 mL or 12×10 mL Rotor material: High strength plastic



S4-50

Cat. No. 58519100

for ESL58519

Max. speed: 44000rpm Rotor capacity: 50mL×4 Rotor material: Aluminum alloy Default adaptor: A15P30, A5P17



Available adapters

A15P30

Cat. No. 58519024

50mL change 15mL adapter,
Adapted to 17×120mm centrifuge
tube, 13/16×100mm blood
collection tube 4pcs/pk, for S4-50



A24-15P

Cat. No. 58519101

for ESL58519

Max. speed: 44000rpm

Rotor capacity: $15mL \times 24$ Rotor material : High strength plastic

Default adaptor: A15P22, A5P17



A15P22

Cat. No. 58519021

15mL adapter for 17×120 mm centrifuge tube, $13/16 \times 100$ mm blood collection tube 24 pcs/pk, for S6-15, A24-15P, A8-15P



A5P17

Cat. No. 58519022

5mL adapter, Adapted to 13×75 mm blood collection tube 24 pcs/pk, for S4-50, S6-15, A24-15P



A8-15P

Cat. No. 58518/9084

for ESL58519/ESL58518

Max. speed: 44000rpm Rotor capacity:15mL×8

Rotor material: High strength plastic

Default adaptor: A15P22



A2P17_{(Optiona}

Cat. No.58518/9023

1.5/2mL Cryogenic Vials/ centrifuge tube adapter, 24 pcs/pk, for S4-50, S6-15, A24-15P, A12-10P, A6-50P





High-speed Refrigerated Micro Centrifuge

ESL58511

Features

- Ergonomic electronic lock design, the centrifuge lid can be closed with single finger touch
- Precooling, the compressor will automatically start cooling as long as the set temperature is lower than the ambient temperature.
- Sound indicator to prompt that the upper cover is closed to maintain the temperature inside the chamber, after centrifugation.
- Advanced R290 fluorine free refrigerant, low carbon and environmental protection.
- Temp range:-20°C- 40°C, fast and powerful cooling capacity, 7 minutes cooling from room temp to 4°C. Temp can kept at max speed.
- Up to 9 program storage capacity according to experimental needs.
- Three-layer sealed rotors ensare airtightness and biosafety.
- High-strength aluminum alloy withstand numerous high temperature and high pressure sterilizations.
- Five rotors with 0.2mL, 0.5mL, 1.5mL, 2mL and 5mL centrifuge tubes/ PCR tubes capacity.
- \bullet An external condensation tank prevents water $\,$ accumulation within the centrifuge $\,$ chamber.
- Rotor imbalance detection alarm.







Specifications	ESL58511
Max.Speed	15,000rpm (200-15,000rpm) in 100rpm increments.
Max. RCF	21,380×g, step: 10×g
Capacity	1.5/2mL×24, 0.5mL×36, PCR8×4, 5mL×12, 5mL×18.
Temperature setting	-20°C- 40°C
Run Time	30s-99 min; HOLD (continuous running)
Acceleration and deceleration time	25s↑25s↓
Motor Type	DC brushless motor
Safety Performance	Dual door lock, over-speed detection, over- temperature detection with Internal diagnosis system.
Power Requirements	Single-phase, 200V-240V, 50Hz/60Hz, 500W 100V-120V, 50Hz/60Hz, 500W
Noise	≤56dB
Dimensions(mm) Weight	332(Width) \times 553(depth) \times 283(height) 30kg
Other functions	Rotation speed/RCF switchover, inching operation, running process indicator, sound alert. Acceleration/ deceleration in 9 steps, program storage capacity.

High Speed Refrigerated Centrifuge

ESL-24SMTI

High Speed Refrigerated Centrifuge ESL-24SMTI				
Max. RPM	24,000 RPM			
Max. RCF	55,193 X g			
Max. Capacity	4Liter, 1000ml X 4 Tubes			
Display	Dual Display, LCD & FND			
Operating mode	RPM, RCF & IW2d			
Step mode	5 step programmable			
Program memory	10 memory			
Drive system	Inverter motor drive			
Acceleration	10 profiles			
Deceleration	10 profiles			
Timer	99Hr. 59min. & Hold for long run			
Pre-Condition	pre-cooling			
Pre-Condition	-20°C to 40°C			
Safety System	Over Speed detector, imbalance detector, Temperature Limit detector, Door detector			
Dimension	645 x 960 X 1220(H)mm			
Weight	Net. 230kg			
Certification	CE, KGMP, ISO9001, ISO14001			



Centrifuge Body	1
Fixed angle rotor, V508A	1
Rotor Extractor	1
Level	1
Instruction Manual	1

Multi-Purpose Refrigerated Centrifuge











Main Feature

Multi-Purpose R	efrigerated Centrifuge: ESLS-550
Max. RPM	15,000RPM (Swing 4,500 RPM)
Max. RCF	21,130 x g (Swing 3,735 X
Max. Capacity	1000ml, 250ml X 4 Tubes
Main control	Microprocessor controller
Running mode	RPM / RCF
Programmability	10 memory
Timer	99Hr. 59min. & Hold for long run
Temperature Range	-20°C to 60°C
Drive system	Inverter Motor drive
Accel rates	Fast / Slow
Decel rates	Fast / Normal / Slow
Safety device	Over speed protect. Over load protect, Unbalance detector, Temp. protector,
Dimension	675x548 X 366(H)mm
Weight	96Kg
Power	220V, 2Kw, 60Hz
Certification	CE, KGMP, ISO9001, ISO14001



Rotor

ESL-550

Swing-out Rotor





Micro-plate Rotor



Tube Rack

















Model	R250-1S	R100-1S	R5015-4C	R50-3S	R15-7C	R15-9S	R10-9S	R5-13S
Tube	250ml	100ml	50 & 15 ml	50ml	15ml	15ml	10ml	5ml
Places	1	1	4	3	7	9	9	13
ø x L mm	62 x 128	39 x 106	30 x 115	29 x 104	17 x 120	16 x 114	14 x 100	10 x 75

















Fixed Angle Rotor for VS-550

Micro & PCR Tube



VR-C1 combo 1.5ml x 28 tubes 0.4ml x 32 tubes 14000 RPM, 21475G

Micro Tube



V1.524A-55 1.5ml x 24tubes 15000 RPM, 20124G

Round / Oak ridge



V1012A-55 10ml x 12tubes 15000 RPM, 21,130G V1512A-55 15ml x 12tubes

15ml x 12tubes 14000 RPM, 20817G **V506A-55**

50ml x 6tubes 14000 RPM, 20817G

Conical Tube-15ml



V1512AC-55 conical tube 1.5ml x 12tubes 1.2000 RPM, 16035G R99.6mm

Conical Tube-50ml



V506AC-55 50ml x 6tubes 12000 RPM,16180G R 100.5mm

Centrifuge Hand, 2 X 15ml

A single speed hand driven machine consisting of die-cast parts and a steel pinion and worm drive. Screw clamps the machine to the bench. Stove enamelled finish, with removable crank handle. Suitable for 15ml glass tubes.

ESL58528



A single speed hand driven machine consisting of die-cast parts and a steel pinion and worm drive. Screw clamps the machine to the bench. Stove enamelled finish, with removable crank handle. Suitable for 15ml glass tubes.

ESL58529



Centrifuge Tube Sterile Bulk-Pp, 15ml

SPINNING Centrifuge Tube Sterile Bulk-PP,

ESL58537 15ml, 25/pack ESL58538 50ml, 25/pack



Centrifuge Tube, Conical Bottom, Graduated

- Manufactured from ASTM E-438, Boro 3.3 glass.
- Ideal for collecting and separating small amounts of solids.
- Uniformly drawn high quality tubing make the tube durable and safer to use.
- Pointed center of the base collects higher density fraction.
- Uniformly drawn high quality tubing make the tube durable.
- These tube comes with conical bottom
- Provided with graduation for greater precision.
- Marking are in White or Blue enamel.

SKU #	Capacity (mL)	OD x Length (mm)	Pack (pcs)
ESL58535/5	5	13 x 100	100
ESL58535/10	10	15 x 110	100
ESL58535/15	15	17 x 120	100
ESL58535/25	25	22 x 125	100
ESL58535/50	50	28 x 140	50



Pipette Tips With Rack

- Non-sterile autoclavable thin-walled pipette tips
- Available in various packaging
- Free from RNase, DNase, and pyrogenic substances
- Material: 100% virgin polypropylene.
- Autoclavable at 121°C.
- Packaging: bulk (1,000), by rack (1x96), or by refill trays (10x96)

Capacity (μL)	Capacity (µL) Without Rack	SKU # With Rack
0.1–10μL	ESL56955	ESL56955R
10 - 200μL	ESL56956	ESL56956R
100 - 1000uL	ESL56957	ESL56957R



Eppendorf Tubes 1.5 ml Autoclavable

Ales Description Autoclavable Eppendorf Tubes Capacity: 1.5 ml Pk/500 Pcs

Eppendorf Tubes 2 ml Autoclavable

Tel: +44 (0)203 8685740

Ales Description Autoclavable Eppendorf Tubes Capacity: 2 ml Pk/500 Pcs

ESL58542





Vacuum Pump Hand Operated

Handheld vacuum pump with a gauge and a 60 CM tube. Ideal for experimenting with air pressure, atmosphere, vacuum filtration, and leak testing. The pump includes a gauge measuring in inches of Hg and displaces 725 ml of air with a pump rate of 15 ml per stroke. The tubing measures 60 CM in length with a 6mm inner diameter. Capable of reaching up to 29 mmHg. Not designed for heavy continuous use.



Vacuum Pump Electric

Vacuum pump, electric:

Single stage

Suction capacity 4,6 m³/h Ultimate vacuum 10 Pa Noise 46 - 50 dB(A)

Suction connector KS 6/4 mm $\,$ Motor power 120 W $\,$

Voltage source 220 - 240 V / 50 - 60 Hz

Dimension: s 28x12x21 cm Weight: 7 kg

ESL58470

ESL58471



Vacuum Pump Electric Lab Use

Oil-free pump. With innovative electronic, mechanical technology and human design concept make Rocker's family quiet and low vibration, compact and light weight, clean and maintenance free, safe and comfortable.

Max. Vacuum: -680mmHg * Max. Flow: 23 I/Min * Motor rotation: 1750 RPM * Horse power: 1/8 HP * Noise level: 50.0dB





BOTTLE TOP DISPENSER

Excellent chemical resistance, components are made of PTFE, FEP, BSG, PP Fully autoclavable at 121 ° C

Four ranges of bottle-top dispenser covering different volume range $% \left(1\right) =\left(1\right) \left(1\right)$

Easy for cleaning and maintenance

The optional flexible discharge tube with safety handle

permits fast and precise dispensing

Vapour pressure Max. 500mbar, viscosity Max. 500mm2/s,

Temperature Max. 40 ° C, density Max. 2.2g/cm3

ESL58590	Volumes 5 mL	0.5-5 Advance Graduation : 0.1 ml
ESL58591	Volumes 10 mL	1.0-10 Advance Graduation : 0.2 ml
ESL58592	Volumes 25 mL	2.5-25 Advance Graduation : 0.5 ml
ESL58593	Volumes 50 mL	5.0-50 Advance Graduation: 1 ml



Bottle Top Dispenser Advance

Designed for safe, sturdy & stable dispensing directly from the bottle in the range of volumes up to 5 mL O Fast, precise, and reproducible volume locking mechanism on a clear scale O Reagent recovery function reduces reagent waste and prevents dripping when not in use O Adjustable aspirating tube for different bottle heights Features

High chemical compatibility with use of inert materials and glass PTFE piston

- Easy to disassemble and clean for periodic maintenance
- Fully autoclavable at 121t to ensure sterility
- Supplied with most popular adapters (540, GL32, GL38, GL25, GL28)

ESL58590ADVVolumes 5 mL0.5-5 Advance Graduation : 0.1 mlESL58591ADVVolumes 10 mL1.0-10 Advance Graduation : 0.2 mlESL58592ADVVolumes 25 mL2.5-25 Advance Graduation : 0.5 mlESL58593ADVVolumes 50 mL5.0-50 Advance Graduation : 1 mlESL58594ADVVolumes 100 mL10-100 Advance Graduation : 2 ml

Bottle Top Dispenser Electronic 0.1-99.9 ml

- Motor operation minimizes the grip force
- Electronic control decreases the repetitive strain injury
- Remote control panel prevents manual disturbance during operation
- Two Dispensing modes, dispenser and stepper function options

Volume Range : 0.1-99.9mL, Max piston lift is 10mL, resolution is 100μ L Volume Accuracy Dispenser: R = $10mL \pm 30\mu$ L; CV = $10ml \pm 10\mu$ L Stepper: R = $1mL \pm 6\mu$ L; CV = $1ML \pm 9\mu$ L Operating Temperature Range 10oC-30oCQuality Control DIN EN ISO 8655Contro Type External control



Electronic Titrator, (Electronic Burette) 0.01 - 99.99 ml

Digital Burette - provides accurate, precise and convenient bottle-top titration with optimum operator safety. It combines both magnetic stirrer and Burette functions, making it easier for the user to achieve reproducible results in the field of analytical chemistry, food industry, water analysis etc,

High quality motor with excellent precision and accuracy

Electronic control provides fatigue-free operation

Remote control panel prevents manual disturbance during operation

Built -In magnetic stirrer for a complete and easy operation Large LOD display parameter

Volume Range: 0.01 ml -99.99ml., Max piston lift is 10ml, resolution is 10pl.

Volume Accuracy: R=0.2% CV=0.07%Speed Level: 16 stages

Operating Temperature Range: 10°C-30°C Quality Control: DIN EN ISO 8655Control

Type: External control, including the stirrer and the burette program

ESL58598



Pipette Controller

Features

- Ease of use
- Precise pipetting control
- Robust and light weight

Compatible with most of the plastic and glass pipettes from 0.1 -100mL

- 3µm replaceable hydrophobic filter
- Easy for cleaning and maintenance

ESL58568



3µm replaceable Hydrophobic filter

Silicone adapter for 0.1-100mL pipette tip, fully autoclavable



Compress the suction bellows before attaching the pipette

Button to expel residual liquid when using blow-out pipette

Aspiration and dispensing comfortably achieved with a sensitive lever



Pipette Pump

Designed for single-handed operation, Pipette Pump identifies itself with a thumbwheel, allowing precise aspiration or dispensing. The feature of side lever enables complete liquid dispensing, without a droplet remaining.

Features

- Volume capacity 2mL, 10mL and 25mL
- Colour-coded by volume with green, blue and red
- Thumb wheel guarantees precise operation
- · Resistant to acids and alkalis
- Easy for cleaning and maintenance

ESL56390	2 ML
ESL56391	5 ML
ESL56392	10 ML
ESL56393	25 ML

	1
Volumes	Color
200ul	Gray
100ul	Blue
75ul	Red
50ul	Orange
30ul	Yellow
25ul	Dark Green
OEM	Optional



Mini Pipette

- Ergonomic design provides excellent operation experience;
- Smart body, ideal to combine with IVD reagents;
- Compatible with universal 200µl tips;
- · Various volumes from 25ul to 200ul, different color for different volumes, easy to choose;
- Entire body by one-time molding, robust to use.



Pipette Filler Electronic Basic

ESL58569

Elegant design & reliable performance, with long-life battery

Features

- Enables single-handed operation with
- minimum effort
- Speed adjustment simply with finger tips
- Individually set aspiration (upper button) and dispensing
- (lower button) speeds
- Compatible with glass or plastic serological pipettes pipettes(0.1- 100mL)
- 0.45µm replaceable hydrophobic filter
- · High capacity Li-ion battery enables long operation time

Large LCD display showing low battery warning and speed settings

Select the desired coarse speed pressing the button +/-







Pipette Filler Electronic ADV

ESL58570

Features

Features

- Compatible with most of the plastic and glass pipettes from 0.1 -100mL
- Six different speed modes for aspiration and dispensing different liquids
- · Large LCD display showing low battery warning and speed settings
- Enables single-handed operation with minimum effort
- · Light and ergonomic design providing easy usability
- High capacity Li-ion battery enable long runtime of operation
- Powerful pump fills a 25mL pipette in<5 seconds
- 0.45µm replaceable hydrophobic filter
- Rechargeable during use





Hydrophobic filter 0.45µm Silicone adapter for 0.1-100mL pipette tip, fully autoclavable

Specifications	ESL58569	ESL58570				
Aspiration Speed	25mL<5s (6 shift)	25mL<5s (7 shift)				
Dispensing Speed	Motor/Gravity					
Battery	Lithium-ion					
Battery Service Life	More than 8 Hours of Intermittence Use					
Charging Time	2-3 Hours					
Pipette Types	Glass or Plastic Pipette ((0.1-100mL), Pasteur Pipettes				
Filter	Filter 0.45µm Hydrophobic					
Weight		200g				

Micro-Pipette Fixed Volume Basic

Mechanical, Single-channel Fixed Volume Basic grade of mechanical pipettes from with autoclavable lower half. Each of these high quality laboratory pipettes comes with an individual test certificate, that adheres to ISO8655. Our pipette is one of the most lightweight and easy to operate pipettes on the market.

Features

- Light weight, ergonomic, low force design
- The pipettes cover volume range of 0.1µL to 10mL
- Easy to calibrate and maintain with tool supplied
- · Design helps avoid repetitive strain injuries
- Calibrated in accordance with ISO8655.
- The lower section can be autoclaved

Fixed Volume Pipettes								
	Volume		Tool	Error limits in accordance with ISO8655-2				
SKU	Volume Range	Increment	Test -	(Accuracy error)		(Precision error)		
				%	μL	%	μL	
ESL58572/5UL	5µL	-	5ul	1.30%	0.065	1.20%	0.06	
ESL58572/10UL	10μL	-	10µL	0.80%	0.08	0.80%	0.08	
ESL58572/20UL	20μL	-	20µL	0.60%	0.12	0.50%	0.1	
ESL58572/25UL	25µL	-	25µL	0.50%	0.125	0.30%	0.075	
ESL58572/50UL	50μL	-	50µL	0.50%	0.25	0.30%	0.15	
ESL58572/100UL	100µL	-	100µL	0.50%	0.5	0.30%	0,3	
ESL58572/200UL	200µL	-	200µL	0.40%	0.8	0.20%	0.4	
ESL58572/250UL	250µL	-	250µL	0.40%	1	0.20%	0.5	
ESL58572/500UL	500uL	-	500µL	0.30%	1.5	0.20%	1	
ESL58572/1000UL	1000μL	-	1000uL	0.30%	3	0.20%	2,0	
ESL58572/2000UL	2000μL	-	2000uL	0.30%	6	0.15%	3	
ESL58572/5000UL	5000µL		5000uL	0.30%	15	0.15%	7.5	

Micro-Pipette Fixed Volume Advance

The pipette is fully autoclavable, being able to withstand temperatures of 121°C and pressure of 1ATM, and does not need to be pre-treated prior. Following the autoclave cycle, a 12 hour cooling and drying period ensures that the high performance of the Micro-Pipette Fixed Volume Advance is retained. It is recommended the piston and rubber seals be greased after every 10 cycles of autoclaving.

Features

- Streamlined shape design
- \bullet Comprehensive volume range from 0.1 μL to 10 mL
- Easy calibration and maintenance
- Dispensing head rotates for effortless pipetting convenience
- · Individual piston and tip cone assembly
- Spring loaded tip cones for easy cleaning and maintenance
- Compound material-made tip cone secures high sealing performance

Fixed Volume Pipettes								
	Volume		Test Volume	Error limits in accordance with ISO8655-2				
SKU	Range	Increment		ne (Accuracy error)		(Precision error)		
				μL	%	μL	%	
ESL58571/5UL	5μL	-	5µL	±0.065	±1.3	±0.06	±1.2	
ESL58571/10UL	10μL	-	10µL	±0.08	±0.8	±0.08	±0.8	
ESL58571/20UL	20μL	-	20µL	±0.12	±0.6	±0.1	±0.5	
ESL58571/25UL	25µL	-	25µL	±0.125	±0.5	±0.075	±0.3	
ESL58571/50UL	50μL	-	50µL	±0.25	±0.5	±0.15	±0.3	
ESL58571/100UL	100μL	-	100µL	±0.5	±0.5	±0.3	±0.3	
ESL58571/200UL	200μL	-	200µL	±0.8	±0.4	±0.4	±0.2	
ESL58571/250UL	250µL	-	250µL	±1.0	±0.4	±0.5	±0.2	
ESL58571/500UL	500uL	-	500uL	±1.5	±0.3	±1.0	±0.2	
ESL58571/1000UL	1000μL	-	1000µL	±3.0	±0.3	±2.0	±0.2	
ESL58571/2000UL	2000μL	-	2000µL	±6.0	±0.3	±3.0	±0.15	
ESL58571/5000UL	5000μL	-	5000µL	±15	±0.3	±7.5	±0.15	





Single-Channel Adjustable Mechanical Pipette

Features

- The pipette cover wide of variable Volume range
- Light weight, ergonomic, low force design
- The pipettes cover volume range of 0.1µL to 10mL
- Easy to calibrate and maintain with tool supplied
- Design helps avoid repetitive strain injuries
- Calibrated in accordance with ISO8655.
- The lower section can be autoclaved

Single-channel Adjustable Volume Pipettes Error limits in accordance with ISO8655-2

SKU Volume			Test	(Accurac	cy error)	(Precisi	on error)
Range	Volume		%	μL	%	μL	
			2.5µL	2.50%	0.0625	2.00%	0.05
ESL58573	0.1-2.5μL	0.05µL	1.25µL	3.00%	0.0375	3.00%	0.0375
			0.25µL	12.00%	0.03	6.00%	0.015
			10μL	1.00%	0.1	0.80%	0.08
ESL58574	0.5-10μL	0.1µL	5µL	1.50%	0.075	1.50%	0.075
			1µL	2.50%	0.025	1.50%	0.015
			20μL	0.90%	0.18	0.40%	0.08
ESL58575	2-20µL	0.5μL	10μL	1.20%	0.12	1.00%	0.1
			2µL	3.00%	0.06	2.00%	0.04
			50μL	0.60%	0.3	0.30%	0.15
ESL58576	5-50µL	0.5μL	25µL	0.90%	0.225	0.60%	0.15
			5µL	2.00%	0.1	2.00%	0.1
			100µL	0.80%	0.8	0.15%	0.15
ESL58577	10-100µL	1µL	50μL	1.00%	0.5	0.40%	0.2
			10μL	3.00%	0.3	1.50%	0.15
			200µL	0.60%	1.2	0.15%	0.3
ESL58578	20-200µL	1µL	100µL	0.80%	0.8	0.30%	0.3
			20μL	3.00%	0.6	1.00%	0.2
			200µL	0.60%	1.2	0.15%	0.3
ESL58579	50-200μL	1µL	100µL	0.80%	0.8	0.30%	0.3
			50μL	1.00%	0.5	0.40%	0.2
			1000µL	0.60%	6	0.20%	2
ESL58580	100-1000μL	5µL	500µL	0.70%	3.5	0.25%	1.25
			100µL	2.00%	2	0.70%	0.7
			1000µL	0.60%	6	0.20%	2
ESL58581	200-1000μL	5µL	500µL	0.70%	3.5	0.25%	1.25
			200µL	0.90%	1.8	0.30%	0.6
			5000μL	0.50%	25	0.15%	7.5
ESL58582	1000-5000μL	50μL	2500µL	0.60%	15	0.30%	7.5
			1000µL	0.70%	7	0.30%	3
			10mL	0.60%	60	0.20%	20
ESL58583	2-10mL	0.1mL	5mL	1.20%	60	0.30%	15
			2mL	3.00%	60	0.60%	12

United Kingdom Tel: +44 (0)203 8685740



Micro-Pipette Variable Volume Advance

The pipette is fully autoclavable, being able to withstand temperatures of 121°C and pressure of 1ATM, and does not need to be pre-treated prior. Following the autoclave cycle, a 12 hour cooling and drying period ensures that the high performance of the Micro-Pipette Fixed Volume Advance is retained. It is recommended the piston and rubber seals be greased after every 10 cycles of autoclaving.

Features

Streamlined shape design

Comprehensive volume range from 0.1µL to 10mL

Easy calibration and maintenance

Dispensing head rotates for effortless pipetting convenience

Individual piston and tip cone assembly

Spring loaded tip cones for easy cleaning and maintenance

Compound material-made tip cone secures high sealing performance

Error limits in accordance with ISO8655-2								
SKU	Volume	Increment	Test	Systemat	Systematic Error		m Error	
Range		Volume	μL	%	μL	%		
			2.5	±0.0625	±2.50	±0.05	±2.00	
ESL58573A	0.1-2.5	0.05	1.25	±0.0375	±3.00	±0.0375	±3.00	
			0.25	±0.03	±12.00	±0.015	±6.00	
			10	±0.1	±1.00	±0.08	±0.80	
ESL58574A	0.5-10	0.1	5	±0.075	±1.50	±0.075	±1.50	
			1	±0.025	±2.50	±0.015	±1.50	
			20	±0.18	±0.90	±0.08	±0.04	
ESL58575A	2 - 20	0.5	10	±0.12	±1.20	±0.1	±1.00	
			2	±0.06	±3.00	±0.04	±2.00	
			50	±0.3	±0.60	±0.15	±0.30	
ESL58576A	5 - 50	0.5	25	±0.225	±0.90	±0.15	±0.60	
			5	±0.1	±2.00	±0.1	±2.00	
			100	±0.8	±0.80	±0.15	±0.15	
ESL58577A	10-100	1	50	±0.5	±1.00	±0.2	±0.40	
			10	±0.3	±3.00	±0.15	±1.50	
			200	±1.2	±0.60	±0.3	±0.15	
ESL58578A	20-200	1	100	±0.8	±0.80	±0.3	±0.30	
			20	±0.6	±3.00	±0.2	±1.00	
			200	±1.2	±0.60	±0.3	±0.15	
ESL58579A	50-200	1	100	±0.8	±0.80	±0.3	±0.30	
			50	±0.5	±1.00	±0.2	±0.40	
			1000	±6	±0.60	±2	±0.20	
ESL58580A	100-1000	5	500	±3.5	±0.70	±1.25	±0.25	
			100	±2	±2.00	±0.7	±0.70	
			1000	±6	±0.60	±2	±0.20	
ESL58581A	200-1000	5	500	±3.5	±0.70	±1.25	±0.25	
			200	±1.8	±0.90	±0.6	±0.30	
			5000	±25	±0.50	±7.5	±0.15	
ESL58582A	1000-5000	50	2500	±15	±0.60	±7.5	±0.30	
			1000	±7	±0.70	±3	±0.30	





Micro-Pipette Variable Volume Pro

new generation fully autoclavable mechanical pipette has the best ergonomic design and ultralight weight. It has been designed keeping in mind the human form and human factors to offer smooth and effortless ergonomic pipetting experience. It is UV sterilisable and resistant to strong chemical corrosion. In addition, the volume lock helps protect from volume changing accidentally , and achieve reliable pipetting of smallest volume of liquids.

Features

Ultra-light ergonomic design: Light weight and light pipetting force with soft range adjustment and piston movement offers effortless &fatigue-less pipetting experience.

Accurate pipetting: Special material and the updated components & technologies effectively reduces the operating force for accuracy, precision and reliability..

Complete sterilization: The best in class pipette material used is fully autoclavable. It gives better protection against chemical & physical corrosion, and offers enhanced UV resistance for higher durability.

Error limits in accordance with ISO8655-2							
SKU	Volume Range	Increment	Test	Systematic Error		Rando	m Error
Sito Folding Runge		Volume	μL	%	μL	%	
			2.5	±0.04	±1.4	±0.02	±0.7
ESL58573P	0.1-2.5	0.002	1.25	±0.03	±2.5	±0.02	±1.5
			0.25	±0.03	±12.0	±0.02	±6.0
			10	±0.10	±1.0	±0.04	±0.4
ESL58574P	0.5-10	0.01	5	±0.08	±1.5	±0.04	±0.8
			1	±0.03	±2.5	±0.02	±1.8
			20	±0.20	±1.0	±0.06	±0.3
ESL58575P	2 -20	0.02	10	±0.12	±1.2	±0.06	±0.6
			2	±0.10	±5.0	±0.03	±1.5
			50	±0.45	±0.9	±0.15	±0.3
ESL58576P	5- 50	0.05	25	±0.35	±1.4	±0.20	±0.8
			5	±0.15	±3.0	±0.08	±1.6
			100	±0.80	±0.8	±0.20	±0.2
ESL58577P	10-100	0.1	50	±0.50	±1.0	±0.15	±0.3
			10	±0.30	±3.0	±0.10	±1.0
			200	±1.20	±0.6	±0.40	±0.2
ESL58578P	20-200	0.2	100	±1.00	±1.0	±0.30	±0.3
			20	±0.50	±2.5	±0.14	±0.7
			300	±1.80	±0.6	±0.60	±0.2
ESL58579P	30-300	0.2	150	±1.50	±1.0	±0.45	±0.3
			30	±0.75	±2.5	±0.21	±0.7
			1000	±6.00	±0.6	±2.00	±0.2
ESL58580P	100-1000	1	500	±5.00	±1.0	±1.00	±0.2
			100	±3.00	±3.0	±0.60	±0.6
			5000	±30.00	±0.6	±10.00	±0.2
ESL58581P	1000-5000	5	2500	±15.00	±0.6	±7.50	±0.3
			1000	±12.00	±1.2	±3.00	±0.3
			10000	±60.00	±0.6	±20.00	±0.2
ESL58582P	2000-10000	10	5000	±40.00	±0.8	±10.00	±0.2
			2000	±30.00	±1.5	±6.00	±0.3



Tel: +44 (0)203 8685740

Micro-Pipette Multi Channel Variable Range Basic

Multi-channel, Mechanical, 8 & 12 - channel Adjustable

Features

- Light weight, ergonomic, low force design
- The pipettes cover volume range of 0.1 µL to 10 mL
- Easy to calibrate and maintain with tool supplied
- Design helps avoid repetitive strain injuries
- Calibrated in accordance with ISO8655.
- The lower section can be autoclaved
- 8 and 12 channel pipettes are available for
- standard 96-well plate
- Dispensing head rotates for optimum pipetting
- convenience
- Individual piston and tip cone assemblies allow
- easy repair and maintenance
- Compound material tip cone design allows visual
- seal verification
- Can be used with universal style pipette tips



	8-channel Adjustable Volume Pipettes						
	Walana a		Took	Error lin	nits in accordar	ce with ISO	8655-2
SKU	Volume Range	Increment	Test Volume	(Accurac	y error)	(Precision error)	
	Range		Volume	%	μL	%	μL
			10μL	1.50%	0.15	1.50%	0.15
ESL58584/0.51	0.5-10μL	0.1µL	5µL	2.50%	0.125	2.50%	0.125
			1µL	4.00%	0.04	4.00%	0.04
			50μL	1.00%	0.50	0.50%	0.25
ESL58584/55	5-50µL	0.5µL	25μL	1.50%	0.375	1.00%	0.25
			5µL	3.00%	0.15	2.00%	0.1
			300µL	0.70%	2.1	0.25%	0.75
ESL58584/503	50-300μL	5μL	150µL	1.00%	1.5	0.50%	0.75
			50µL	1.50%	0.75	0.80%	0.4

	12-channel Adjustable Volume Pipettes							
	Volume		Test Volume	Tool		nits in accordar	nce with ISO	8655-2
SKU	Range	Increment		(Accurac	y error)	(Precisi	on error)	
	Range			%	μL	%	μL	
			10µL	1.50%	0.15	1.50%	0.15	
ESL58585/0.51	0.5-10μL	0.1µL	5µL	2.50%	0.125	2.50%	0.125	
			1µL	4.00%	0.04	4.00%	0.04	
			50μL	1.00%	0.5	0.50%	0.25	
ESL58585/55	5-50µL	0.5µL	25µL	1.50%	0.375	1.00%	0.25	
			5µL	3.00%	0.15	2.00%	0.1	
			300µL	0.70%	2.1	0.25%	0.75	
ESL58585/503	50-300μL	5μL	150µL	1.00%	1.5	0.50%	0.75	
			50µL	1.50%	0.75	0.80%	0.4	



Micro-Pipette Multi Channel Variable Range Advance

Multi-channel, Mechanical, 8 & 12 - channel Adjustable

Features

- Light weight, ergonomic, low force design
- The pipettes cover volume range of 0.1µL to 10mL
- Easy to calibrate and maintain with tool supplied
- Design helps avoid repetitive strain injuries
- Calibrated in accordance with ISO8655.
- The lower section can be autoclaved
- 8 and 12 channel pipettes are available for
- standard 96-well plate
- Dispensing head rotates for optimum pipetting
- convenience
- Individual piston and tip cone assemblies allow
- easy repair and maintenance
- Compound material tip cone design allows visual
- seal verification

288

• Can be used with universal style pipette tips



	8-channel Adjustable Volume Pipettes						
SKU	Volume	Increment	Test	Systematic Error		Random Error	
	Range		Volume	μL	%	μL	%
			10	±0.15	±1.50	±0.15	±1.50
ESL58584/0.51A	0.5-10	0.1	5	±0.125	±2.50	±0.125	±2.50
			1	±0.04	±4.00	±0.04	±4.00
			50	±0.5	±1.00	±0.25	±0.50
ESL58584/55A	May-50	0.5	25	±0.375	±1.50	±0.25	±1.00
			5	±0.15	±3.00	±0.1	±2.00
			100	±0.8	±0.80	±0.3	±0.30
ESL58584/101A	10-100	1	50	±0.5	±1.00	±0.4	±0.80
			10	±0.3	±3.00	±0.2	±2.00
			300	±2.1	±0.70	±0.75	±0.25
ESL58584/503A	50-300	5	150	±1.5	±1.00	±0.75	±0.50
			50	±0.75	±1.50	±0.4	±0.80
			1000	±10	±1.00	±3	±0.30
ESL58584/1010A	100-1000	10	500	±10	±2.00	±2.5	±0.50
			100	±5	±5.00	±1	±1.00

	12-channel Adjustable Volume Pipettes						
SKU	SKU Volume	Increment	Test	Systematic Error		Random Error	
	Range		Volume	μL	%	μL	%
			10	±0.15	±1.50	±0.15	±1.50
ESL58585/0.51A	0.5-10	0.1	5	±0.125	±2.50	±0.125	±2.50
			1	±0.04	±4.00	±0.04	±4.00
			50	±0.5	±1.00	±0.25	±0.50
ESL58585/55A	May-50	0.5	25	±0.375	±1.50	±0.25	±1.00
			5	±0.15	±3.00	±0.1	±2.00
			100	±0.8	±0.80	±0.3	±0.30
ESL58585/101A	10-100	1	50	±0.5	±1.00	±0.4	±0.80
			10	±0.3	±3.00	±0.2	±2.00
			300	±2.1	±0.70	±0.75	±0.25
ESL58585/503A	50-300	5	150	±1.5	±1.00	±0.75	±0.50
			50	±0.75	±1.50	±0.4	±0.80

United Kingdom ———— Tel: +44 (0)203 8685740

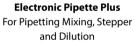
Electronic Micropipette

Features

- Motor driven digitally control pipette with multifunction's
- Easy Operations and Handling
- intuitive menu interface settings; functions and operations
- Minimal force for pipetting operation
- High performance ensuring accuracy & repeatability
- 2 buttons for all operational settings
- Adjustable speed for aspiration and dispensing
- Li-ion battery enable longer Operative time
- Convenient and Versatile
- Self-colibroti0n applicable









Electronic E Pipette
For Pipetting
and Mixing

SKU	Channels	Volume Range	Increment		Accuracy Error		Precision Error	
			μL	μL	μL	%	μL	%
ESL58586E1	_	0.5.40	0.04	10	±0.10	±1.00	±0.05	±0.50
ESL58587EP1	1	0.5-10	0.01	1	±0.035	±3.50	±0.03	±3.00
ESL58586E5	1	E E0	0.4	50	±0.40	±0.80	±0.15	±0.30
ESL58587EP5	'	5-50	0.1	5	±0.15	±3.00	±0.125	±2.50
ESL58586E3	4	20.200	4	300	±1.80	±0.60	±0.60	±0.20
ESL58587EP3	1	30-300	1	30	±0.09	±3.00	±0.21	±0.70
ESL58586E10		100 1000	_	1000	±6.00	±0.60	±2.00	±0.20
ESL58587EP10	1	100-1000	5	100	±3.00	±3.00	±0.60	±0.60

specifications are used as guidelines on the user calibration should refer to the industrial standard ISO 8655





Pipettes Stand Linear

The universal linear pipette holder designed and manufactured by ES is compatible withour pipette series It can stably and conveniently hold up to 8 single-channel and multi-channel pipettes simultaneously, and up to 10 pipettes This holder is a practical tool for laboratory pipetting operations due to its stability and convenience.

ESL58588



Pipettes Stand Round

The universal circular pipette holder designed and manufactured by ES is compatible with the Dragon pipette series - MicroPette Plus pipettes. The freely rotatable circular pipette holder can securely hold up to 6 single and multi-channel pipettes.

ESL58588R

Parameter Knob

Multi-Functional 8-channel Electronic Pipette

ES multi-functional high performance 8-channel electronic pipette offer productive pipetting with its easy to understand operations. Its uniquely lightweight streamlined design ensures an effortless transfer of multiple samples with an increased throughput and data reproducibility.

Easy Operation

Intuitive interface for setting functions and parameters.

Ergonomic Design

Low operation forces for complete work, which is exceptionally fatique-free.

Convenient and Versatile

360° pipetting. Double knobs for simple and versatile control. Easy loading tip cones offers smooth and leak free operation.

Dual charging modes

Use of USB charger or the charging stand to ensure uninterrupted use.



Tel: +44 (0)203 8685740

Three easy steps to operate

1

Long press the Porometer Hn0b for 2 seconds to Stort

Quickly turn the Functionon wheel to Activote, R0tote to Switch Pipetting, Continu0us Dispensing, and other Functionon Settings

2

After quickly turning the Porometer Hnob to Unlock, Turn to Adjust the Volume, Press to Pipette, Long press to MiX

Three speed

adjustable

Electronic Pipette

Pipetting function

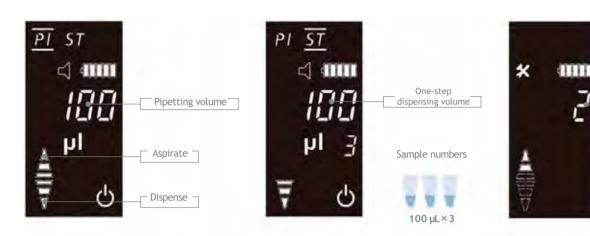
Stepper function

Other function

Parameter Knob press Long press Mixing

Maximum steps = Pipette nominal volume / One step dispensing volume

Pipetting speed adjustment Key tone ON/OFF



Supports dual charging mode







Specifications

8-channel Adjustable Volume Pipettes							
CVII	Volume	Tuevenent	Test	Systema	tic Error	Random Error	
SKU	Range	Increment	Volume	μL	%	μL	%
				10	±0.20	±2.00	±0.10
ESL58589/8E1	8	0.5-10	0.01	5	±0.20	±4.00	±0.10
				1	±0.08	±8.00	±0.05
				100	±0.80	±0.80	±0.30
ESL58589/8E10	8	10-100	0.1	50	±0.50	±1.00	±0.40
				10	±0.30	±3.00	±0.20
				300	±1.80	±0.60	±0.90
ESL58589/8E15	8	15-300	1	150	±1.50	±1.00	±0.75
				15	±0.60	±4.00	±0.15
				300	±1.80	±0.60	±0.90
ESL58589/8E3	8	30-300	1	150	±1.50	±1.00	±0.75
				30	±0.90	±3.00	±0.30

PCR Thermal Cycler Basic

ESL58602

Features

- 3 driving modes
- From the display screen, PC, or tablet. Modifying, creating, deleting, programming is simplified and infinitely customizable.
- From 5 °C to 100 °C in a few seconds!
- Amplification times are short (25 to 70 min) because the thermocycler benefits from a Peltier effect module. It also has a sample conservation mode at 4°C at the end of the amplification. CE standards compliant.
- Free PCR software to download
- Real-time monitoring (progress, cycles, duration)
- Counter for the number of theoretical copies
- Animation synchronized with the cycle progress
- Experiment files and educational videos available



Sample volume	0.2 mL
Maximum number of customizable programs	Unlimited
Screen	128 x 64 mm
Display accuracy	0.1°C
Number of blocks	1
Temperature accuracy at 55°C	±0.2°C
Max number of programs stored	8
Dimensions (L x W x H)	225 x 140 x 100 mm
Temperature scale	1 to 99°C
Number of samples	16
Heating rate	3°C/s
Bluetooth data transfer,	USB cable



Thermocycler with screen and knob for displaying and programming cycles.

Supplied with control software for PC or tablet to download.



PCR Thermal Cycler Basic System Complete Package

ESL58602SET

The package consists of:

- 1 didactic 16-well PCR thermocycler ref. ESL58602,
- 1 electrophoresis tank with trans illuminator ESB52162 and 1 micropipette 2/20 µl ref. ESL58575
- 1 PCR Express DNA replication kit,
- 1 micro-centrifuge DLAB ® D1008 7000 Trm ref. ESL58503,
- 1 refrigerated rack for PCR micro tube ref. ESL56950,
- 1 rack of 96 pipette tips 0-200 µl ref. ESL556956R



Auto Pipettes Single Channel

ESL58575

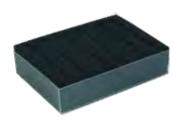


Rack of 96 Pipette Tips 0-200 µl ESL556956R



PCR Thermal Cycler Basic

ESL58602S



Refrigerated Rack for PCR

ESL56950



ESL58503



Electrophoresis System

ESB52162

Thermal Cycler Regression

ESL58603G

Thermal Cycler Regression Advance

ESL58603GA

Thermal Cycler Standard

ESL58603S

Thermal cycler is essential laboratory instrument in the field of molecular biology research such as sequencing, gene cloning, gene expression, mutagensis applications and applied market like drug discovery, agriculture, food industry, etc.



Excellent Temperature uniformity



Gradient function







- High performance long life Peltier and independent control circuits for different heating segments implement accurate temperature control
- Auxiliary heating mechanism diminishes the "edge effect" and enhance the temperature uniformity
- Wide touchdown PCR temperature range (-9.9°C \sim +9.9°C) and Long PCR time range (-9min59s \sim +9min59s)
- Gradient temperature setting supported, optinizing temperature easily in the single run
- \bullet User friendly interface on 7 inch color touch screen enable you edit the program very simple
- The PCR touch screen pen improves the operation experience and reduces the cross contamination risk



More features

- Wide options of consumables common PCR tubes, 8-well PCR strips and 96-well PCR plates can be used
- File customization, multi-file storage
- Power-off protection function, automatic program recovery
- \bullet Hot lid auto-off function: If the module temperature is lower than 30°C, the hot lid function will automatically turn off



LCD touch panel



Excellent temperature accuracy









Tel: +44 (0)203 8685740

Specifications	ESL58603G	ESL58603GA	ESL58603S
Sample Capacity	96 ×0.2 mL PCR tul	be - 12 ×0.2 mL PCR-8 strips - 0.2	mL 96 PCR Microplate
Heating Temperature Range /°C	4-105	4-105	0-105
Lid Temperature Range /°C	30-110	30-110	30-115
Temperature Display Accuracy /°C	± 0.1	± 0.1	± 0.1
Temperature Display Accuracy@55°C	± 0.3	± 0.3	± 0.1
Temperature uniformity@55°C	< 0.3	< 0.3	± 0.2
Max. Heating/Cooling Rate	5°C/Sec	5°C/Sec	5°C/Sec
Gradient Temperature Setting Range /°C	-	30-99	30-105
Gradient Range /°C	-	1-42	1-42, enter 0 to turn off the gradient.
Temperature control method	Block/Tube	Block/Tube	Block/Tube
Adapter block material	Aluminum	Aluminum	Aluminum
Display	7'LCD 800×480	7'LCD 800×480	7'LCD 1024×600
Input	Touch panel	Touch panel	Touch panel
Computer host system	-	-	Yes
Communication interface	-	-	USB、WIFI
User defined file system	Max.30 segments 99 cycles, ar	nd storage for over 200 files	20000+ (USB FLASH)
Power off protection	Yes	Yes	Yes





Digital Rotary Evaporator

ESL58609

LCD Digital Rotary Evaporator is an essential instrument in chemical laboratories for the efficient and gentle emoval of solvents from samples by evaporation. It offers an excellent distilling solution in a wide range of applications.

- Digital display of both rotation speed and heating temperature allows for optimal control of all distillation processes
- Automatic motor lift releases the evaporating flask to a safe position in case of power failure
- •5L heating bath with wide temperature range from room temp. to 180°C,Water/oil heating mode can be changed only through a switch
- Overheating protection temperature at 220°C
- · Boil-dry protection, automatically power off if heating
- without water/oil in the heating bath
- Speed range from 20 to 280rpm, and interval operation in clockwise and anticlockwise directions for drying process
- Patented condenser (cooling surface 1700cm²) with excellent cooling effect
- Ejection mechanism ensures easy removal of evaporating flask
- Patented double spring sealing ring made of PTFE provides an excellent sealing performance
- Remote function provides PC control and data transmission
- Optional glassware with explosion proof film available. ESL58609



Large LCD display



USB connector



Chemical resistance



Overheating protection



Compatible with all range of glassware

Specifications	ESL58609
Motor Type	Brushless DC motor
Speed Range	20-280rpm
Display	LCD(speed, temperature, time)
Clockwise and Anti-clockwise	Yes
Heating Temperature Range	Room temp. to 180°C
Control Accuracy	water: + 1°C oil: + :3°C
Heating Power	1300W
Stroke Displacement	automatic 150mm
Timer	Yes
Time Setting Range	1-999min
Dimension[DxWxH]	465x457x583mm
Weight	15kg
Permissible Ambient Temperature	5-40°C
Permissible Relative Humidity	80%RH
Protection Class	IP20
USB Interface	Yes
Voltage/Frequency	100-120/200-240V50/60Hz
Power	1400 W







Pharmacy & Lab Refrigerator (+2/25C)

Temperature setting range +2 to +15 °C
Gas: environmentally friendly R290 gas
Exterior: White skin plate metal sheet
Interior: Stainless steel AISI 304 for perfect highiene
CE certified. Company have ISO 9001:2015 certification
2 year warranty on parts

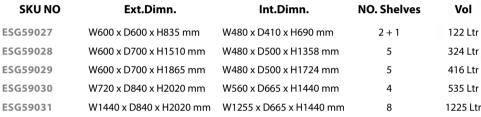
Forced air cooling circulation

Automatic defrost

Extra probe for product temperature simulation

Inbuilt data logger, that creates a pdf file with temperature graphics and alarms. USB for data retrieval

Battery back up to keep controller and alarms working for at least 26 hours after power failure Safety thermostat to prevent temperatures to go below 2 degrees.









Extra probe for product temperature simulation

Inbuilt data logger, that creates a pdf file with temperature graphics and alarms. USB for data retrieval

Battery back up to keep controller and alarms working for at least 26 hours after pov Safety thermostat to prevent temperatures to go below 2 degrees.

SKU NO	Ext.Dimn.	Int.Dimn.	NO. Shelves	Vol
ESG59027G	W600 x D600 x H835 mm	W480 x D410 x H690 mm	2+1	122 Ltr
ESG59028G	W600 x D700 x H1510 mm	W480 x D500 x H1358 mm	5	324 Ltr
ESG59029G	W600 x D700 x H1865 mm	W480 x D500 x H1724 mm	5	416 Ltr
ESG59030G	W720 x D840 x H2020 mm	W560 x D665 x H1440 mm	4	535 Ltr
ESG59031G	W1440 x D840 x H2020 mm	W1255 x D665 x H1440 mm	8	1225 Ltr

Tel: +44 (0)203 8685740





CHINE HOLD

rang inth

Flake Ice Maker

ELS-625FS

ESL-625F

ESL-625

Features

- Flake Type Ice Maker
- Full Automation
- Screw Turbine Level



Flake Type Ice

Water Filter

WF-004















Flake Ice Maker Es		ESL-625FS	ESL-625F	ESL-625
Production Day	y	80 kg	80 kg 120 Kg	
Storage Capac	ity	58 Liter	120 Liter	120 Liter
Compressor		1/3HP ,R404A	1/3HP ,R404A	1/2HP,R404A
Dimension	(ln) (Out)	345 x 450 x 740 (H)mm 600 x 560 x 740 (H)mm	450 x 420 x 6300 (H)mm 675 x 560 x 1065 (H)mm	485 x485 x510(H)mm 990 x635 x1190 (H)mm
Material	(ln)	Stainless Steel	Stainless Steel	Stainless Steel
Materiat	(Out)	Stainless Steel	Stainless Steel	Stainless Steel With Powder Coating
Weight		61 kg	83 kg	125 kg
Power		220 V,800,60Hz	220 V,800,60Hz	220 V,1.3KW,60Hz
Ice Type		Flake Type Ice		
Door		Front PC Door		
Saftey Device		Power Circuit Beaker , , Ice Le	evel Sensor, Water Level Sen	sor
Accessory		Drain & supply Gose, , Scoop		







ESL-625



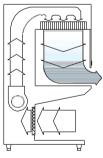
Laminar Flow Clean Bench

ESL-700LV

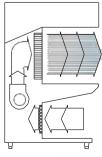
Features

- Micro Processor Control
- Easley Controlling Verifying Operation
- High Efficiency filter minor vibration ,low noise design
- Removable Working Table For Easy Cleaning
- Inflow pre filter installed fro extending life of Hepa filter Meet bio safety level 1.2.3





Vertical air flow



Horizontal air flow

Model		ESL-700 LVN
type		Vertical air flow type
Main Control		Microprocessor Control with Touch pad
Purity		Lower Than Class 100
Main Filter		HEPA Filtre (99.99% efficient at 0.3micron particles)
Pre Filter		Nylon material
Dimension (WXDXH) (mm)	(ln) (Out)	1200 x 620 x 7 710 1320 X 790 X 1920
Material	(ln) (Out)	Stainless Steel Steel plate with Powder Coating
Illumination		30W.F.L X 2EA
UV Lamp		30W.U.V x 2EA
Door		Sliding Glass Door
Power		220V, 3A, 60HZ

Tel: +44 (0)203 8685740





Bio Hazard Safety Cabinet

ESL-801SC - ESL-802SC ESL-803SC - ESL-804SC

Features

- Micro Processor Control
- Easley Controlling Verifying Operation
- High Efficiency filter minor vibration ,low noise design
- Removable Working Table For Easy Cleaning
- Inflow pre filter installed fro extending life of Hepa filter Meet bio safety level 1.2.3



Option

Model		EESL-801SC	ESL-802SC	ESL-803SC	ESL-804SC	
Dimension (WXDXH) (mm)	(In) (Out)	960 X 580 X 670 1100 X 770 X 2310	1160 X 580 X 670 1300 x 770 x 2130	1460 x 580 x 670 1600 x 770 x 2310	1660 x 580 x 670 1800 x 770 x 2310	
type		Bio Hazard Safety Type, Glass	Il Type			
Main Control		Microprocessor Control with To	ouch pad			
Winding Velocity	,	0.3 - 0.5m/sec				
Purity		Lower Than Class 100				
Main Filter		HEPA Filter /0.3 micron 99.99	% efficiency			
Pre Filter		Nylon material/ Internal moundted				
Working Table		Easy removable plate				
Material	` '	Working table Stainless Steel S Cabinet Steel plate with Powd				
Illumination		40w fluorsecent lamp X 2EA				
UV Lamp		40W X 1EA				
UV Timer		15,30,60 min or Hold				
Utility	Air Cock, Gas Cock, Electric Outlets					
Door		Sliding Glass Door, Tempered	Safety Glass			
Safety System		Door Limit Alarm				
Power		220V, 2.2A, 60HZ				



EduScience UK



We Contribute To Future Education





Science Cart

This mobile system will transform any room into a science lab. The cart is fitted with sets of trays for laboratory experiment equipment and easily movable from room to room.

The EduCart is a flat packed, cost-effective mobile teaching complex and convenient storage system, which provides an integrated approach to teaching natural sciences with the use of modern technology.

The EduCart frame is made out of sturdy, acid resistant steel with doors that are fire and scratch resistant. One of the side has a heavy duty handle for easy manoeuvring and, with the help of our high quality wheels, the cart can be easily pushed over uneven ground.

The autonomous water system consists of an acid resistant polypropylene sink with a stainless steel faucet. The water flow can be easily controlled with a button that is connected to the built-in electric pump.

Size of the cart assembled: L1509 x W690 x H1073mm.

ESA62322

Mobile Science Bench

The Mobile Science Bench (MSB) has been designed by science teachers for Secondary and Tertiary school science teaching and learning. It is a self-contained mobile science laboratory enabling the teaching of science in any classroom within your school or institution. The MSB provides an ideal flexible laboratory facility for wheel in Lectures and demonstrations and as a temporary laboratory facility when schools are undergoing redevelopment and change. The bench is designed for Secondary students providing the correct working height and the width allows easy access through standard doorways.



Features:

Laboratory grade working surface: Trespa Athlon, Pull out surfaces for extra working space, Gratnells trays provide ample storage space for equipment, Lockable doors for safety, Push/pull handles for easy manoeuvrability, Lockable castors for stability, Mains plug with minimum 4 socket outlet, Double gas tap tubing for bottled gas*, Running water via clean waste water tanks. Powerful water pump and waste disposal system, Screw in sockets for standard retort stands, Computer monitor arm, Lockable computer storage

Supplied with:

12 x Blue Shallow Gratnell trays (6 on each side), 1 x Small drip cup sink, 1 x 2 way gas tap with fixed tubing, 1 x Swan neck water tap 5 x lockable doors with keys, Tubing connected to gas tap (no gas regulator supplied), Computer screen monitor arm, 2 x Screw in retort stand sockets, 2 x water containers (1 x waste-Black, 1 x fresh-Clear), 1 x smooth constant flow fully sealed IP65 rated water pump, Self-Priming pump up To 3m (10ft), Suitable For 15mm Quick Connect Plumbing, Run dry protection Strainer to protect from debris, 1 x Irwin Powerswitch PSU, 1 x Input Supply voltage 230V dc Supply frequency 50Hz, Mains fuse Rear panel 2A, 20mm quick blow Mains plug 3A, Output Voltage 2, 4, 6, 8, 10, 12V ac nominal 1, 3, 5, 7, 9, 11V full wave rectified DC nominal, Maximum output current 5A AC or DC Please note: The bench is not supplied with either a gas regulator or gas bottle. A suitable and sufficient COSHH (Control of Substances Hazardous to Health Regulations) and DSEAR (Dangerous Substances and Explosive Atmospheres Regulations) risk assessment must be performed for gas and gas equipment by the school.

Size: 1250 (Height) x 1530 (Width) x 700 (Depth)

* Gas bottle requirements are Butane gas in either 3.5kg or 4.5kg sizes.





Primary Science Bench

A fully functional, mobile science laboratory designed specifically for Primary Schools.

All benches are supplied with mains power, lockable castors and both cupboards contain Gratnells trays. Complete Primary Science Bench supplied fully assembled with all the below options. Options can be modified to suit your teaching environment. Please call us to discuss further.

Laboratory grade working surface - 16mm Trespa, Pull out surfaces for extra working area, Plenty of storage space, Gratnells trays for storage of science equipment, Lockable wheels, Lockable cupboard doors, Butane Gas (optional), Running water with clean and waste tanks, Monitor arm (optional)

Length: 1400mm

Depth: 700mm Height: 845mm.

Weight: 210Kgs approximately

Please not e: The bench is not supplied with either a gas regulator or gas bottle. A suitable and sufficient COSHH (Control of Substances Hazardous to Health Regulations) and DSEAR (Dangerous Substances and Explosive Atmospheres Regulations) risk assessment must be performed for gas and gas equipment by the school.

Dimensions: 1200 (Height) x 1400 (Width) x 700

(Depth)

Weight: 205kg,

* Gas bottle requirements are Butane gas in either 3.5kg

or 4.5kg sizes.

ESA62325



Mobile Food Technology Bench

Versatile mobile Food Technology Bench which allows the teaching of Food Technology to be performed in an ordinary classroom. The unit comes complete with running water, clean and waste water tanks, a full sized cooker/grill, a twin hob induction cooker, a silicone pastry mat and rolling pin, 5 standard Gratnells trays and additional storage. Requires 2 x Mains outlet? 1 for the cooker/water and 1 for the induction hob.

The unit is sized to easily fit through standard doorways and is fitted with wheels (two lockable) for ease of use.

Key features:

Food Grade working surface 16mm Trespa Athlon

Full size electric cooker with grill

Twin induction hob and large silicone pastry mat in locked storage cupboard

Running water with clean and waste tanks

Gratnells trays for storage of utensils and cooking equipment

Lockable cupboard doors

Easy push with lockable wheels for stability Only requires 2 x 13A socket for power

Dimensions:

Length: 1424 mm Depth: 700mm Height: 950 mm



Fume Cupboard Mobile Eduscience 1000Rs

Mobile Fume Cupboard

Product Description

The unit gives good flexibility and can be manoeuvred to different locations. An RS CMS schools filter is used to absorb the fumes generated during practical work. A pre filter is fitted to protect the filter and the filter and fan are housed in the base of the unit. A counterweighted front sash and clear laminated safety glass sides and rear provide 360° visibility ideal for demonstrations. The unit comes complete with an integral storage cupboard and fan failure monitoring system. The optional services are remote gas, electrical socket, and remote water service including drip cup, bottle trap and a 2m flexible drain hose.

Complies to building bulletin 88 from the Department of Education and Employment

Tested by CLEAPSS

Designed to comply to BS 7989:2001

Benefits:

Variable air volume (two speed)

Fully mobile

360 ° visibility

No ducting required Sliding front sash

5 C : :

Fan failure monitoring

Restraining stainless steel tether

Integral storage cupboard

Specifications:

Average inflow: 0.4m/s

Minimum working aperture: 200mm high Maximum working aperture: 365mm high

Voltage: 230V

Filter type: RS CMS schools filter, a blended filter to meet the national $% \left(1\right) =\left(1\right) \left(1\right) +\left(1\right) \left(1\right) \left(1\right) +\left(1\right) \left(1\right$

curriculum needs for teaching science

Please note that the appearance of the product may differ from the models

shown. If in doubt please contact customer services.

Size : $1000 \times 700 \times 1850 \text{mm}$ (w x d x h)

Internal **Dimensions:** 840 x 500 x 865mm (w x d x h)

Minimum working aperture: 200mm high Maximum working aperture: 365mm high

Voltage: 230V 50Hz 1ph



ESA62329



Fume Cupboard Static Filtration

Static Filtration Fume Cupboard

Product Description

Features & Benefits:

it is ideally suited for the use in the classroom or prep-room, 22kg CMS carbon filter, Filtrate pre-filter, Polypropylene worktop and vulcathene dricup, Low airflow alarm, No ducting required, Sliding front sash, Standard services including: gas and water, Single electric socket, Plain stand, Light, Energy efficient

Specifications

External size: 1000 x 760 x 2200mm (WxDxH) Internal size: 950 x 550 x 780mm (WxDxH) Minimum working aperture: 200mm high Maximum working aperture: 365mm high Average airflow: 0.4M/s (alters with sash position)

Voltage: 230V 50Hz 1ph

Filter: CMS schools filter blended to meet the national curriculum needs for teaching science





Fume Cabinet Ductless

EDU Chemcap ductless fume cabinet, for bench mounting. Pre-filter and Chemcap filters (x2), MP type.

Sound Level:<50dBA, Face Velocity: >0.3m/s , Power: 96W , Air Changes: 0.59 m3

Features

Ouiet operation >50dBA.

Anemometer airflow indicator.

All round visibility of cabinet interior.

Edu Chemcap exceeds the requirements of important international standards for use of re-circulatory filtration cabinets in schools and colleges:

Design Note 29 and Building Bulletin 88 Ideal for teaching practical chemistry

ES EDU Chemcap fume cabinet (ductless, recirculatory filtration) is ideal for use in education, providing staff and students with a flexible system that allows excellent all round vision and ensures safety is maintained.

The use of Chemcap Carbon filtration (type MP) makes it ideal for a mixed use laboratory and removes a very wide variety of fumes and vapours.

Cabinets have trapezium shaped front access and double hinged front doors which open fully to allow access to the cabinet interior for loading, setting up an experiment and for cleaning. The base tray is black which is excellent for highlighting spillages. Two services ports with covers are provided in the rear panel.

Cabinet can be placed onto an existing work surface or supplied with its own mobile bench (optional cupboard doors and services kit).

The mobile bench enables the cabinet to be fully mobile, large castors (lockable) facilitate easy movement of the cabinet from room to room over

rough floors and door sills.

The secure docking hub is an optional extra which is a wall mounted lockable cabinet providing security and protection for utility connections.

Filtration technology ES is a leader in carbon filtration technology: High performance laboratory grade carbon filter media is impregnated with additives to ensure the best possible retention capacity and filtration performance.

Chemcap Enviro Filters: was one of the first companies to replace potentially toxic and carcinogenic inorganic additives with environmentally friendly and biodegradable compounds, whilst achieving excellent retention capacities that are amongst the best in the world.

Filtration used In EDU Cabinets Pre-filtration; eliminates particles at 5.0micron or larger to an efficiency of 92% as defined in BS EN ISO 779.

Carbon Filtration eliminates toxic species and compounds within the recommended occupational exposure limit for pollutant gases having molecular weight equal to or greater than 30.

Efficiency 99.9%.

Optional: HEPA filtration (H14 Standard) eliminates particles 0.3 microns or larger to an efficiency of 99.995%.

Optional extras

Secure Docking Hub. Security and protection for your students and staff - enables your cabinet to be moved around safely.

Wall-mounted secure utility connections cabinet.

Lockable, accessed by authorised users only.

Customizable access plate in base.

Connections secure at all times, in use or not.

Mobile Bench. Make your portable EDU Chemcap fume cabinet fully mobile with the addition of a robust epoxy coated pressed steel open stand (Part No. AT0013/01) or cupboard (Part No. AT0013/02). Large lockable castors assist when moving over rough floors and door sills. Double electrical socket included, mounted to the rear of the bench.

Mobile bench Option Services Kit Option. Gas tap and swan neck water tap with drip cup. Connectors and hoses (1.5m) are included.

 ESA62331
 Dimensions (mm) WxDxH: 1020x750x1130

 ESA62332
 Dimensions (mm) WxDxH: 1020x750x1950

 ESA62333
 Dimensions (mm) WxDxH: 1020x750x1950









Safety Cabinet Acid And Alkali Floor

Use of caustic materials present many hazards, particularly if acids and alkalis are stored incorrectly or with other chemicals. These storage cabinets enable secure and identifiable storage in the workplace.

Welded all steel structure for extra strength Seven lever safe lock for high security Full length heavy duty hinges with concealed fixings to prevent forced entry New regulation labels enclosed to be fitted by customer to suit regulations Powder coated with Germ Guard Active Technology anti-bacterial paint. Made from 1.5mm steel Integral liquid-tight sump encourages the correct handling of spills through the use of absorbent Reaction to Fire Classification EN 13501-1

900 x d 460 x h 700mm Number of shelves - 1, Number of doors - 2, Dime	ensions: 2
1200 x d 460 x h 1800mm Number of shelves - 3, Number of doors - 2, Dime	ensions: 2
Number of shelves - 1, Number of doors - 1, Dime	ensions: 1
460 x d 460 x h 900mm Number of shelves - 3, Number of doors - 1, Dime	ensions: 2
7 900 x d 460 x h 1800mm Number of shelves - 3, Number of doors - 2, Dime	ensions: 2
900 x d 460 x h 900mm Number of shelves - 2, Number of doors - 2, Dime	ensions: 1





Safety Cabinet Hazardous, Floor

Hazardous Floor Cupboards enables the separate storage and transportation of hazardous substances as demanded by the COSHH regulations. Fire tested and certified EN13501-1 'No snag' handles Adjustable spill-retaining galvanised shelves for superior spill management Integral liquid-tight sump encourages the correct handling of spills through the use of absorbent Welded integrated sump, angled lid to discourage article placement and a hasp and staple lock (padlock not supplied)

Number of shelves - 3, Number of doors - 2, Dimensions : 2	W 1200 x d 460 x h 1800mm	ESA62341
Number of shelves - 1, Number of doors - 1, Dimensions : 1	52342 W 350 x d 300 x h 700 mm	ESA62342
Number of shelves - 2, Number of doors - 2, Dimensions : 2	W 900 x d 460 x h 1200 mm	ESA62343
Number of shelves - 3, Number of doors - 2, Dimensions : 2	W 900 x d 460 x h 1800 mm	ESA62344
Number of shelves - 1, Number of doors - 2, Dimensions : 2	W 900 x d 460 x h 700 mm	ESA62345
Number of shelves - 1, Number of doors - 2, Dimensions : 2	W 900 x d 460 x h 900 mm	ESA62346



Safety Cabinet Radioactive Storage

Radioactive Storage Cupboard

Product Description

This is a stoutly built enamelled sheet-steel cupboard having a louvred, lockable door bearing a standard international red and yellow warning plate. Two keys are provided for the lock. The rear wall of the cupboard carries two narrow steel shelves which ensure that any containers placed on them are at the maximum possible distance from the door.

The dimensions of the cupboard are such that assuming a maximum stock of 30 $^{\circ}$ Ci in the form of Co60 is kept on the shelf, the dose rate at the surface of the door would be less than 0.5 mR/hr. A rectangular plastic tray is provided to contain any spillages.

The cupboard is provided with small fixing holes so that it may be screwed to a wall. It is recommended that it is sited away from normally occupied areas and that its back is against or attached to a wall.

Dimensions: 380 x 380 x 380mm.

Tray: 310 x 240 x 20mm deep.

ESA62347



Safety Cabinet Drugs and Poisons

Drugs And Poisons Cabinet

Product Description

Lockable cabinet for the secure storage of scheduled drugs and poisons. Designed for wall mounting through special reinforced panels incorporated in the back.

Features include sealed hinges and three adjustable shelves. Door hinges to the right.

Dimensions: W458 x H610 x D152mm.











Trolley With Gratnells Tray

The Gratnells storage system is unique and designed for the organisation of all types of school equipment and the enormous range of science materials and equipment that need storing. Manufactured from square steel tubes with slots at 25mm intervals to take trays. The trolleys have 80mm castors and are ideal when transporting equipment around the room. Metal runners are required and sold separately but are adjustable and can accommodate our range of super-tough trays. Supplied flat packed for self assembly. Please note: Trays and runners are sold separately.

ESA62349	Double column tall frame	Size W710 x D420 x H1850mm. This product holds up to $$ 34 shallow trays.
ESA62350	Double column - h725mm	Size: W710 x D420mm. This product holds up to 12 Shallow trays and comes with heavy duty castors.
ESA62351	Double column - h850mm	Size: W710 x D420mm. This product holds up to 12 Shallow trays and comes with heavy duty castors.
ESA62352	Single column - h725mm	Size: W370 x D420mm. This Products hold up to 6 shallow trays and come with heavy duty castors.
ESA62353	Single column - h850mm	Size: W370 \times D420mm. This product holds up to 6 Shallow trays and comes with heavy duty castors.
ESA62354	Treble column tall frame - 1850mm	Size: W1055 x D420mm in 2 heights with adjustable feet with flat metal top.
ESA62355	Treble column - h725mm	Size: W1055 \times D420mm. This product holds up to 18 Shallow trays and comes with heavy duty castors.
ESA62356	Treble column - h850mm	Size: W1055 x D420mm in 2 heights with recessed top.



Tel: +44 (0)203 8685740



Lab Trolley Three Tier Apparatus

Three Tier Apparatus Trolley

Fully welded, tubular end frame construction in stainless steel. Shelf heights 210mm, 520mm and 820mm from floor level.

The shelves are fixed (i.e. not removable) for added stability and are supplied lipped edges up, (lipped edges down are available on request). Maximum weight limit is 200kg uniform distributed load.

Size: L1060 x W460 x H900mm.

ESA62358



Ribbed Rubber Mat

Ribbed Rubber Mat, Rubber mat to fit the three and two tier apparatus trolleys.

3mm thick

Size: 1000 x 460mm.

ESA62362

Lab Wall Bench

Lab wall bench different sizes are available according to your lab room size.

ESA62386





Lab Student Bench Octagonal Shape With Tap & Sink

Lab student bench octagonal shape with tap & sink

ESA62378

Lab Student Bench Octagonal Shape

Lab student bench octagonal shape

2378



Lab teacher bench

ESA62373



Computer Teacher Table

Size: 1600x750x900mm (LxDxH)

Table top from 24mm thick melamine laminated MDF with 2mm thick PVC edging on all sides

Front panel 220mm high from 24mm thick melamine laminated MDF with 2mm thick PVC edging on all sides

Frame from 50x20x2mm thick epoxy powder coated mild steel oval tube with end cap

Front connecting frame from 40x20x1.5mm thick epoxy powder coated mild steel tube

1 no. CPU Holder from 25x2mm thick epoxy powder coated mild steel flat bar

1 no. 13Amp/220Volts Double electric outlet

1 no. Data network outlet

1 no. Cable cover 80mm dia

ESA62397

Computer Student Table

Size:900x750x750mm (LxDxH)

Table top from 24mm thick melamine laminated MDF with 2mm thick PVC edging on all sides

Front panel 220mm high from 24mm thick melamine laminated MDF with 2mm thick PVC edging on all sides

Frame from 50x20x2mm thick epoxy powder coated mild steel oval tube with end cap

Front connecting frame from 40x20x1.5mm thick epoxy powder coated mild steel tube

1 no. CPU Holder from 25x2mm thick epoxy powder coated mild steel flat bar

1 no. 13Amp/220Volts Double electric outlet

1 no. Data network outlet

1 no. Cable cover 80mm dia

ECA62401



Lab Stool Stacking PP

Flat top stool has a simple stacking design and is extremely durable giving many years of service in most testing environments.

Frames feature high-quality steel and leatherite paint finish for the ultimate durability.

Shells are flame retardant as standard making them suitable for usage in all environments including labs.

ESA62366





Lab Stools Standard ES 1

stool seating top made of extremely robust and resistant: scratch and wear resistant, impact and break resistant, stain and abrasion resistant, lightfast, resistant to chemicals, flame retardant and self-extinguishing.

The safety gas spring with easy-to-operate hand release sits on a robust 5-star aluminum base, which is available epoxy-coated in many attractive colors as standard or optionally in polished aluminum..



Mini Tablet Charging Trolley - 10-Bay or 12-Bay

ESA62415

Description

This Tablet charging cabinet is customized to secure, protect and charge the IT devices , including Mobile phone , kindle , tablet PC in school , hospital , government department , training places , etc

Above sample creates capacity for

total 10~12 units loading , with 340mm height space for charging 1 x 10 or 1 x 12 $\,$

34mm gap between each slot , ensure to fit IT device up to 15.6" 100 kgs Max. loading

Key Features

Efficiency

Embedded handle at front side for operation

Special-made shelf comes with cable management function Wall Mounting installation

Security

Handle key locking system for front metal doors

Safety

USB2.0; 19V 2.4A charging safe and quick

The entire cabinet is to be tested and certified to CE,RoHS standard ON/ OFF lighted switched at side for quick operation



Environment

Cooling/Ventilation: 1 \times AC continuous operation fans keep equipment cool Well-

controlled fans keep devices cool (fans will work automatically when cabinet circuit reaches its setting value)

Safety for children.

Warranty

Five (5) years mechanical/workmanship; two (2) years electrical components; one (1) year cables =Ships fully assembled=

specifications	24-way
Country-specific power cord	1.5m long
Power System: input/output	220-250V~ MAX AC input
Temperature Range	operating 0° to 30°C (32° to 86°F)
storage	-40°C to 60°C (-40° to 140°F
Parameter	Product Dimensions: 510X370x345MM(W*D*H)



Application	Li	Laptop/Mobile IT devices/Ethernet switch/Tablet						
Interface			Country-spe	cific standard				
Charging NO.	10-way	11-way	12-way	13-way	More	OEM		
USB port	19V 2.4A -	USB-C						
Input			110V,2	20V,240V				
Output			110V,220Vor	19V/ SV. 2.4A	4			
0 11-11	LIIV DC42/2	Germany	French	Australia	IEC	Other		
Outlet type	UK BS1363	DIN49441	DIN49441	AS/NZS311 2	C13/C14 C19/C20	GB1002 BS546		
Standard configuration			1. Embedded 2. Handle lo 3. LED indica 4. Operating 5. Cam-key lo 6. Earthing of 7. Power mo	ck ator g handle lock cable				
Optional			 Lights dec Time cont Glass door Master De Other idea 	troller r evice shelf				



[Additional design for different environments]

Different color options

Side/top panel punched with vented area (tropics)



Sync & Charging Trolley

FSA62416

Webit SY series charging cabinet is designed to simultaneously sync and charge up to 30 mobile devices , including Mobile phone , kindle , tablet , Chromebook.

The reliable , ergonomic structure designed from SPCC cold rolled steel and aluminum alloy frame, upon education application, makes the SY cabinet works safely and protect users from wound.

- The Cart creates capacity for :
- Total 30 units loading, fir devices up to 15.6"
- Maximum charge output of 2.4A per outlet
- Supports USB 2.0 data transfer rates up to 5Gbps
- Syncs any USB device using its compatible software

Outlet options

No.	Outlet	Power rate	Devices
1	USB-A 2.0	5V 2.1A	Mobile phone , Tablets ,etc
2	USB-A 3.0	19V 3.4A	Mobile phone , Tablets ,etc
3	USB-C	19V 2.4A	Mobile phone , Chromebook

Key Features

Efficiency

- Embedded handle at side without space occupied
- Special-designed shelf comes with cable management function
- Universal low-noise wheels for easily moving
- Easily synced & charged via cable to USB port
- Power cable withdrawing box built at side of the cabinet

Security

- Handle locking system for front accessing control
- Lockable back electrical compartment

Safety

- Strong alu-alloy frame body , rounded corner design to ava accident wound.
- USB-A or USB-C outlet charging safe and quick (DC MODE
- The entire cabinet is to be tested and approval by to CE,
- RoHS,ISO standard
- RCCB to protect from overload / Leakage



invironment

Well-designed ventilation and AC fans optional

Thermostat controlled fans will work automatical necessary)

IP-20 rated

Country-specific power cord = 1.5m long

Power System: input/output = 110-250V~ MAX AC input





Five (5) years mechanical/workmanship; two (2) electrical components; one (1) year cables Ships fully assembled=

Tel: +44 (0)203 8685740







specifications	10-way	20-way	30-way	Customized
Exterior Size	515x530x595 mm	515x530x865 mm	515x530x1135 mm	- mm
Exterior Size	20.2x20.8x23.4 in	20.2x20.8x34.0 in	20.2x20.8x44.7 in	- in
Weight	31kg	48kg	65kg	- kg
Weight	68 lbs	105 lbs	143lbs	- lbs
Remarks		* Above of DC series model ,	plz contact sales for AC model	
SKU #	ESA62416/10	ESA62416/20	ESA62416/30	ESA62416SP

Specifications are subject to change without notice

Note that the cart operating temperature range does not all apply to IT devices



Cabinet specifications

Materials SPCC cold rolled steel, Aluminum-alloy, PVC

Color RAL7630 Beige; RAL5012 Light blue; RAL9005 Black

Input power Country specific (110V, 220V)

Output power As per model require

Operating Interior RCCB protector; Side sync charging port; On/Off switch

Locking Front and back handle lock

Divider specifications

Materials Anti-flame plastic

Mounting Pattern Inset

Applications Laptop / Mobile IT devices / Ethernet switch / Tablet / Kindle

Max. 15.6

Electrical

Max. port 40-way, or contact sales for customization

AC Voltage 220vAC or 110vAC

Frequency 45-66 Hz

Max. Current 10-16A as per country specific

DC Voltage 5V; 12V, 19V optional

Current 2.1A; 2.4A, 3.4A optional

Monitoring, Control

Connecting -

_

Visible -

ON/OFF -

Timer setting -

Theme -

Others

Operating Temp 0° to 30°C (32° to 86°F);

Storage Temp -40°C to 60°C (-40° to 140°F)

Optional kits

UV-ray light Disinfection application, Auto on/off

Code lock Combination lock

AC output -1 Exterior AC output socket

AC output -2 Group AC output at back of the trolley

LED screen Digital LED screen to show inner environment







Fit devices of

LAPTOP

Fit Max. up to 15.6" Support 45W, 65W USB-A 2.0 female outlet communication USB-C female outlet (PD2.0 , PD3.0 support)



TABLETS

Fit Max. up to 14.1 "
Support 10W (5V, 2.1A) outlet,
45W, 65W USB-A 2.0 female
outlet communication
USB-C female outlet (PD2.0 , PD3.0 support)



MOBILES

Fit most of well-known brands mobile phones Support 10W (5V, 2.1A) outlet , 45W, 65W USB-A 2.0 female outlet communication

USB-C female outlet (PD2.0 , PD3.0 support)

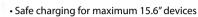




AC power Charging Cabinet

laptop/tablet charging cabinet is customized design to secure, protect and charge the electrical devices;

Including pad, phone, Laptop in school,hospital,government department, Training places etc;



- Easy cable management
- Compact footprint structure
- Removable and spacious slot
- Security locker
- 2 cooling fans included
- 5-year mechanical & 2-year electrical warranty
- Online service and replaced Interchangeable charging parts
- Optional smart charging solution

WB-CC-D-30 charging cart creates capacity for you:

Build for 30 devices

Charge 30 units of Chromebook, laptop or tablets - up to a 15.6" screen



Cleverly designed dividers

Customized dividers make placing and pull devices simple flexible add/remove upon charging device size



Headache-free cabling system

Experience simple device management with less slip cutting edge cable technology from slipping out



Smooth and seamless charging

Optional CC-D cycle charging



Determine the best charging way without program Devices are efficiently charged and protect from overload



Perfectly compact structure

Small footprint save room space Provide easy storage for any classroom size Make-to-order design available if at user necessary



Efficiency

- Swiveling wheels(Rubber) included for moving.
- Cable management shelf provides well-organized charging appearance and -convenient operation.
- LED lamp (optional)
- · Cable entry at side.



- Handle lock, for both front and rear side.
- Ensure security for users.

Safety

- Well-designed ventilation and continuous controlled fans keep devices
- passivated treatment corner to avoid accident wounding
- For user and equipment safety







=Ships fully assembled=

Device size	Bearing	Capacity	AC output	Work temp	VESA
Up to 15.6" tablet	300kg	Up to 30	110~220Vac	-15°C~65°C	-

Environment

Cooling/Ventilation: 4 AC continuous operation fans keep equipment cool [Fan location can be adjustable.]

Country-specific power cord = 2m length

Power System: input/output = $110V\sim220V$, 50/60 Hz or customized as different countries

IP degree: IP-20

Parameter

Product Dimensions: 610X610X1048MM(W*D*H), height including castor

Warranty: Five (5) years mechanical/workmanship; two (2) years electrical components; one (1) year cables

Device Capacity	30	Slot Size	25W*250H*155D mm
Support device	Pad/Chromebook/Ethernet switch/Mobile devices up to 15.6"	Charging type	Basic charging
LED lamp	3 units , each layer	External outlet	0
Divider type	Plastic divider with cabling system	Sliding shelves	Yes
Cart Dimension	610W*610D*1048H mm	Packing Dimension	650W*640D*1070H mm
Net Weight	61KG (134lbs)	Gross Weight	81KG (178lbs)
Power Spec	AC IN 100-120V ~ 50/60Hz , 15A 200-250V ~ 50/60Hz , 10A~16A	Cable management	Plastic divider at front Metal hook at back
Security	Front door: 3-point mechanism Back door: 3-point mechanism	Castor	4" castor x 4, 2with brake
Security hook	Yes	Fan	2 of 12038
Handle	Yes	Color	White/Black



Key Features

Efficiency

- Embedded handle at side without space usage
- Special-designed shelf comes with cable management function
- Universal low-noise wheels for easily moving
- Remotely monitor & control via WIFI signal
- Power cable withdrawing box built at side of the cabinet

Security

- Handle locking system for front accessing control
- · Lockable side electrical compartment

Safety

- Strong and full SPCC steel body , rounded corner design to avoid accident wound.
- USB2.0 female connect 2.1A charging safe and quick
- The entire cabinet is to be tested and approval by to CE, RoHS,ISO standard
- RCCB to protect from overload / Leakage

Tablet Charging Trolley

ESA62417

This O2 series charging cabinet is customized to secure, protect and charge the IT devices, including Mobile phone, kindle, tablet, PC in school, hospital, government department, training places, etc; Up to 300W DC load via house-hold power system. The reliable, ergonomic structure designed from SPCC cold rolled steel, upon education application makes the O2 cabinet works safely and protect users from wound.

Above sample creates capacity for

- Total 10/20/30 units loading, with 250mm height space for each level
- 1/2/3 x 10
- 25mm gap between each slot, ensure to fit IT device up to 14.1"
- 300 kgs Max. loading

Outlet options

No.	Outlet	Power rate	Devices
1	USB-A 2.0	5V 2.1A	Mobile phone , Tablets ,etc
2	USB-A 3.0	5V 3.4A	Mobile phone , Tablets ,etc
3	USB TYPE-C	19V 2.4A	Round pin laptops , Chromebook
4	USB TYPE-C	19V 3.4A	Latest laptops , Chromebook

?

Environment

Well-designed ventilation and continuous controlled AC fans keep devices cool

Thermostat controlled fans will work automatically when cabinet circuit reaches its setting value)

• IP-20 rated

Country-specific power cord = 1.5m long
Power System: input/output = 220-250V~ MAX AC input



Warranty

Five (5) years mechanical/workmanship; two (2) years electrical components; one (1) year cables

Tel: +44 (0)203 8685740



=Ships fully assemble=



specifications	20-way	24-way	30-way	36-way
Exterior Size	530x500x850 mm	600x500x850 mm	530x500x1163 mm	600x500x1163 mm
Exterior Size	20.9 x 19.7x33.5 in	23.6x17.7x33.5 in	21.6x19.7x45.8 in	23.6x19.7x45.8 in
Weight	47kg	51kg	69kg	76kg
Weight	103.6 lbs	112.4 lbs	152.1 lbs	167.5 lbs
Remarks * Above of USB-A series model , plz contact sales for USB-C model				
SKU #	ESA62417/20	ESA62417/20	ESA62417/30	ESA62417/36

Specifications are subject to change without notice Note that the cart operating temperature range does not all apply to IT devices

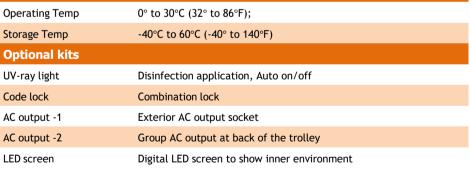


Cabinet specifications	<u> </u>			
Materials	SPCC cold rolled steel, Tempered glass			
Color	RAL7630 Beige; RAL5012 Light blue			
Input power	Country specific (110V , 220V)			
Output power	As per model require			
Operating	Front on/off switch ; Interior RCCB protector ; Mobile APP control $% \left(1\right) =\left(1\right) \left(1\right) $			
Locking	Front handle lock , side cam key lock			
Divider specifications				
Materials	Anti-flame ABS			
Mounting Pattern	Inset			
Applications	Laptop / Mobile IT devices / Ethernet switch / Tablet / Kindle			
Max.	14.1 "			
Electrical				
Max. port	48-way, or contact sales for customization			
AC Voltage	220vAC or 110vAC			
Frequency	45-66 Hz			
Max. Current	10-16A as per country specific			
DC Voltage	5V; 19V optional			
Current	2.1A; 3.4A optional			
Monitoring , Control				
Connecting	Via Mobile phone APP monitoring			
	Current total consumption			
	Current charging No.s			









Each Port details (Volt, consumption, Protocol, etc..)

Weekly pattern timer setting on charging period frame

X-cart inner environment

Remotely switch on each layer

3 colored theme interface options

Fit devices of

MOBILES

Visible

ON/OFF

Theme

Others

Timer setting

Fit most of well-known brands mobile phones Support 10W (5V, 2.1A) outlet , 45W, 65W USB-A 2.0 female outlet communication USB-C female outlet (PD2.0, PD3.0 support)



TABLETS

Fit Max. up to 14.1 "
Support 10W (5V, 2.1A) outlet, 45W, 65W
USB-A 2.0 female outlet communication
USB-C female outlet (PD2.0, PD3.0 support)



Tablet Charging Trolley

ESA62418

This CC-T series charging cabinet is customized to secure, protect and charge the IT devices , including Mobile phone , kindle , tablet , PC in school , hospital , government department , training places , etc ; Up to 300W DC load via house-hold power system.

 $2{\sim}3$ ZONE cycle smart charging mode ensure electronic devices charging safely and fast.

Each Layer monitored by LED indicator.

- Above sample creates capacity for
- Total 10/20/30 units loading , with 250mm height space for each level $1/2/3 \times 10$
- 34mm gap between each slot, ensure to fit IT device up to 15.6"
- 300 kgs Max. loading

Outlet options

No.	Outlet	Power rate	Devices
1	USB-A 2.0	5V 2.1A	Mobile phone , Tablets ,etc
2	USB-A 3.0	5V 3.4A	Mobile phone , Tablets ,etc
3	USB TYPE-C	19V 2.4A	Round pin laptops , Chromebook
4	USB TYPE-C	19V 3.4A	Latest laptops , Chromebook



Key Features

Efficiency

- Embedded handle at side without space usage
- Special-designed shelf comes with cable management function
- Universal low-noise wheels for easily moving
- Remotely monitor & control via WIFI signal
- Power cable withdrawing box built at side of the cabinet

Security

- Handle locking system for front accessing control
- Lockable side electrical compartment

Safety

- Strong and full SPCC steel body , rounded corner design to avoid accident wound.
- USB2.0 female connect 2.1A charging safe and quick
- The entire cabinet is to be tested and approval by to CE, RoHS,ISO standard
- RCCB to protect from overload / Leakage



Environment

Well-designed ventilation and continuous controlled AC fans keep devices cool

Thermostat controlled fans will work automatically when cabinet circuit reaches its setting value)

• IP-20 rated

Country-specific power cord = 1.5m long

Power System: input/output = 220-250V~ MAX AC input



Warranty

Five (5) years mechanical/workmanship; two (2) years electrical components; one (1) year cables

Tel: +44 (0)203 8685740







specifications	20-way	24-way	30-way	36-way
Exterior Size	530x500x850 mm	600x500x850 mm	530x500x1163 mm	600x500x1163 mm
Exterior Size	20.9 x 19.7x33.5 in	23.6x17.7x33.5 in	21.6x19.7x45.8 in	23.6x19.7x45.8 in
Weight	47kg	51kg	69kg	76kg
Weight	103.6 lbs	112.4 lbs	152.1 lbs	167.5 lbs
Remarks	* Above of USB-A series model , plz contact sales for USB-C model			
SKU #	ESA62418 /20	ESA62418 /24	ESA62418 /30	ESA62418SP

Specifications are subject to change without notice

Note that the cart operating temperature range does not all apply to IT devices



Cabinet specifications				
Materials	SPCC cold rolled steel, Aluminum-alloy			
Color	RAL7630 Beige; RAL5012 Light blue			
Input power	Country specific (110V , 220V)			
Output power	As per model require			
Operating	Front on/off switch; Interior RCCB protector; Mobile APP control			
Locking	Front handle lock , side cam key lock			
Divider specifications				
Materials	Anti-flame ABS			
Mounting Pattern	Inset			
Applications	Laptop / Mobile IT devices / Ethernet switch / Tablet / Kindle			
Max.	15.6 "			
Electrical				
Max. port	40-way , or contact sales for customization			
AC Voltage	220vAC or 110vAC			
Frequency	45-66 Hz			
Max. Current	10-16A as per country specific			
DC Voltage	5V; 19V optional			
Current	2.1A; 3.4A optional			
Monitoring , Control				
Connecting				
	LED indicator			
Visible	-			
V.5.5.C	-			
ON/OFF	-			
Timer setting	2 or 3 Zone cycle charging , user can set 30/60 mins each phase			
Theme	-			
Others				
Operating Temp	0° to 30°C (32° to 86°F);			
Storage Temp	-40°C to 60°C (-40° to 140°F)			
Optional kits				
UV-ray light	Disinfection application, Auto on/off			
Code lock	Combination lock			
AC output -1	Exterior AC output socket			
AC output -2	Group AC output at back of the trolley			

Digital LED screen to show inner environment





LED screen

Smart Charging Trolley

ESA62419

This CC-R series charging cabinet is contains DC & AC two models; AC model build-in with Country-Specific 110V/220V power outlet.

DC model comes with USB-A or USB-C fast charging. Webit Smart Charging Cart creates a flexible and efficient working station for education field.

The reliable , ergonomic structure designed from Aluminum-alloy frame upon education application makes the full cabinet works safely and protect users from wound.

Above sample creates capacity for

- Total 24/36/48 units loading, with 250mm height space for each level
- 2/3/4 x 12
- 34mm gap between each slot, ensure to fit IT device up to 15.6"
- 400 kgs Max. loading

Outlet options

No.	Outlet	Power rate	Devices
1	USB-A	5V 2.1A	Mobile phone , Tablets ,etc
2	USB-C	19V 2.4A Tablets ,Round pin Laptops,etc	
3	USB-C	19V 3.4A	Round pin laptops , Chromebook
4	AC 110/220V	Upon Country	All kinds of electronic devices



Key Features

Efficiency

- Embedded handle at side without space usage
- Special-designed shelf comes with cable management function
- Universal low-noise wheels for easily moving
- Smart Charging in 2/3 Circuit cycle, support fast and safe charging.
- Power cable withdrawing box built at side of the cabinet

Security

- Handle locking system for front accessing control
- Lockable side electrical compartment

Safety

- Strong and assemble SPCC cold rolled steel body , Unpack to use directly.
- Rounded corner design to avoid accident wound.
- \bullet The entire cabinet is to be tested and approval by to CE, RoHS,ISO standard , optional UL.
- RCCB to protect from overload / Leakage



Environment

- Well-designed ventilation and continuous controlled AC fans keep devices cool
- (Thermostat controlled fans will work automatically when cabinet circuit reaches its setting value)
- IP-20 rate
- \bullet Country-specific power cord = 1.5m long
- Power System: input/output = 220-250V~ MAX AC input



Warranty

Five (5) years mechanical/workmanship; two (2) years electrical components; one (1) year cables

Tel: +44 (0)203 8685740



=Ships fully assemble=



specifications	24-way	36-way	48-way	Customized
Exterior Size	780x650x850 mm	780x615x1127 mm	780x615x1518 mm	- mm
Exterior Size	30.7x25.6x33.5 in	30.7x25.6x44.37 in	30.7x25.5x59.7 in	- in
Weight	70kg	85kg	101kg	- kg
Weight	154 lbs	187 lbs	222 lbs	- lbs
Remarks	* Above of USB-A series model , plz contact sales for USB-C model			
SKU #	ESA62419 /24	ESA62419 /36	ESA62419 /48	ESA62419

Specifications are subject to change without notice Note that the cart operating temperature range does not all apply to IT devices



Cabinet specifications

Materials Full SPCC cold rolled steel body

Color RAL7630 Beige; RAL5012 Light blue; RAL9005 Black

Input power Country specific (110V, 220V)

Output power As per model require

Operating Front on/off switch; Interior RCCB protector; Mobile APP control

Locking Front handle lock , side cam key lock

Divider specifications

Materials Anti-flame ABS

Mounting Pattern Inset

Applications Chromebook/Laptop / Mobile IT devices / Ethernet switch / Tablet /

Kindle

Max. 15.6 "

Electrical

Max. port 48-way, or contact sales for customization

AC Voltage 220vAC or 110vAC

Frequency 45-66 Hz

Max. Current 10-16A as per country specific

DC Voltage 5V; 12V, 19V optional

Current 2.1A; 3.4A optional

Monitoring, Control

Connecting

_

Visible

ON/OFF -

Timer setting

Theme -

Others

Operating Temp 0° to 30°C (32° to 86°F);

Storage Temp -40°C to 60°C (-40° to 140°F)

Optional kits

UV-ray light Disinfection application, Auto on/off

Code lock Combination lock

AC output -1 Exterior AC output socket

AC output -2 Group AC output at back of the trolley

LED screen Digital LED screen to show inner environment

Fit devices of

LAPTOP

Fit Max. up to 15.6" Support 45W, 65W USB-A 2.0 female outlet communication USB-C female outlet (PD2.0 , PD3.0 support)



TABLETS

Fit Max. up to 14.1 "
Support 10W (5V, 2.1A) outlet,
45W, 65W USB-A 2.0 female
outlet communication
USB-C female outlet (PD2.0 , PD3.0 support)



MOBILES

Fit most of well-known brands mobile phones Support 10W (5V, 2.1A) outlet , 45W, 65W USB-A 2.0 female outlet communication USB-C female outlet (PD2.0 , PD3.0 support)





Smart Charging Cart WB-CC-H

ESA62420

Webit H series charging cabinet integrated USB-A, USB-C,110V or 220V AC outlet simultaneously in a 8-device cart room. It aims to charge network devices like Kindle, Mobile phone, Laptop, tablet, Chromebook, Headset. External light-duty aluminum alloy frame structure works safely and protect users from wound.

The Cart creates capacity of

- up to 8 x 15.6" devices charging
- USB-A or C compliant
- 110Vac or 220Vac compliant
- Smart Locker system
- build-in LED monitor lighting

Outlet options

No.	Outlet	Power rate
1	USB-A 2.0	19V 2.4A
2	USB-C	19V 2.4A
3	AC outlet	110V or 220V





Key Features

Efficiency

- 3 outlet in each layer
- Horizontal put-in (rubber mat optional)
- Universal low-noise wheels for easily moving
- · LED lighting inside
- · Front LED charging light , monitor charging status without door open

Security

- Smart locking system for front accessing control
- · Lockable back electrical compartment

Safety

- Strong alu-alloy frame body , rounded corner design to avoid accident wound.
- USB-A or USB-C outlet charging safe and quick (DC MODEL)
- Build-in earthing system
- The entire cabinet is to be tested and approval by to CE, RoHS,ISO standard
- ON/OFF switch at back to cut off circuit



Environment

Well-designed ventilation and AC fans optional (Thermostat controlled fans will work automatically necessary)

IP-20 rated

Country-specific power cord = 1.5m long

Power System: input/output = 110-250V~ MAX AC input

Tel: +44 (0)203 8685740



Warranty

Five (5) years mechanical/workmanship; two (2) years electrical components; one (1) year cables



=Ships fully assemble=



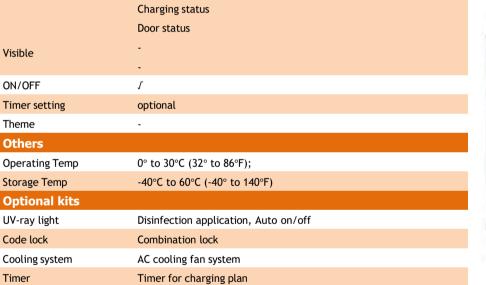
specifications	8-way	10-way	12-way	Customized
Exterior Size	583x450x906 mm	583x450x1085 mm	583x450x1264 mm	- mm
Exterior Size	23x17.7x33.7 in	23x17.7x42.7 in	23x17.7x49.7 in	- in
Weight	26 kg	31 kg	37 kg	- kg
Weight	57 lbs	68 lbs	82 lbs	- lbs
Remarks	* Above of DC series model , plz contact sales for AC model			
SKU #	ESA62420 /8	ESA62420 /10	ESA62420 /12	ESA62420 SP

Specifications are subject to change without notice Note that the cart operating temperature range does not all apply to IT devices



Cabinet specification	ons
Materials	SPCC cold rolled steel, Aluminum-alloy
Color	RAL7630 Beige; RAL5012 Light blue; RAL9005 Black
Input power	Country specific (110V , 220V)
Output power	As per model require
Operating	On/Off switch; Smart locking system;
Locking	RFID card , Pass-code
Divider specification	ons
Materials	Metal (Rubber mat optional)
Mounting Pattern	Welding
Applications	Laptop / Mobile IT devices / Ethernet switch / Tablet / Kindle
Max.	15.6 "
Electrical	
Max. port	20-way , or contact sales for customization
AC Voltage	220vAC or 110vAC
Frequency	45-66 Hz
Max. Current	10-16A as per country specific
DC Voltage	5V ; 12V , 19V optional
Current	2.1A; 2.4A, 3.4A optional
Monitoring , Contr	ol







Fit devices of

Connecting

Visible

ON/OFF

Theme Others

Code lock

Timer

UV lamp

LAPTOP

Fit Max. up to 15.6" Support 45W, 65W USB-A 2.0 female outlet communication USB-C female outlet (PD2.0 , PD3.0 support)



Build-in UV lamp for each layer

TABLETS

Fit Max. up to 14.1 " Support 10W (5V, 2.1A) outlet , 45W, 65W USB-A 2.0 female outlet communication USB-C female outlet (PD2.0 , PD3.0 support)



Fit most of well-known brands mobile phones Support 10W (5V, 2.1A) outlet, 45W, 65W USB-A 2.0 female outlet communication USB-C female outlet (PD2.0 , PD3.0 support)







Flower Table

Table top are made of 18mm thick melamine laminated MDF with PVC Edging on all sides Frame are made of 38mm dia x 1.5mm thick mild steel pipe welded to 40x20x1.5mm thick mild steel tube with epoxy powder coating

ESA63601 Size: 1200mm x 530mm height
ESA63602 Size: 1200mm x 590mm height
ESA63603 Size: 1200mm x 640mm height

Half Arc Table

Table top are made of 18mm thick melamine laminated MDF with PVC Edging on all sides Frame are made of 38mm dia x 1.5mm thick mild steel pipe welded to 40x20x1.5mm thick mild steel tube with epoxy powder coating

 ESA63606
 Size: 1200mm x 600mm x 530mm (LxDxH)

 ESA63607
 Size: 1200mm x 600mm x 590mm (LxDxH)

 ESA63608
 Size: 1200mm x 600mm x 640mm (LxDxH)





Half Round Table

Table top are made of 18mm thick melamine laminated MDF with PVC Edging on all sides ? Frame are made of 38mm dia x 1.5mm thick mild steel pipe welded to 40x20x1.5mm thick mild steel tube with epoxy powder coating

 ESA63610
 Size: 1200mm x 600mm x 530mm (LxDxH)

 ESA63611
 Size: 1200mm x 600mm x 590mm (LxDxH)

 ESA63612
 Size: 1200mm x 600mm x 640mm (LxDxH)

Horseshoe Table

Table top are made of 18mm thick melamine laminated MDF with PVC Edging on all sides Frame are made of 38mm dia x 1.5mm thick mild steel pipe welded to 40x20x1.5mm thick mild steel tube with epoxy powder coating

 ESA63614
 Size: 1800mm x 600mm x 530mm (LxDxH)

 ESA63615
 Size: 1800mm x 600mm x 590mm (LxDxH)

 ESA63616
 Size: 1800mm x 600mm x 640mm (LxDxH)





Rectangular Table

Table top are made of 18mm thick melamine laminated MDF with PVC Edging on all sides Frame are made of 38mm dia \times 1.5mm thick mild steel pipe welded to 40x20x1.5mm thick mild steel tube with epoxy powder coating

Tel: +44 (0)203 8685740

 ESA63618
 Size: 1200mm x 600mm x 530mm (LxDxH)

 ESA63619
 Size: 1200mm x 600mm x 590mm (LxDxH)

 ESA63620
 Size: 1200mm x 600mm x 640mm (LxDxH)



Crescent Table

Table top are made of 18mm thick melamine laminated MDF with PVC Edging on all sides Frame are made of 38mm dia x 1.5mm thick mild steel pipe welded to 40x20x1.5mm thick mild steel tube with epoxy powder coating

 ESA63622
 Size: 1200mm x 530mm height

 ESA63623
 Size: 1200mm x 590mm height

 ESA63624
 Size: 1200mm x 640mm height





Trapezoid Table

Table top are made of 18mm thick melamine laminated MDF with PVC Edging on all sides Frame are made of 38mm dia x 1.5mm thick mild steel pipe welded to 40x20x1.5mm thick mild steel tube with epoxy powder coating

 ESA63626
 Size: 1200mm x 600mm x 530mm (lxdxh)

 ESA63627
 Size: 1200mm x 600mm x 590mm (lxdxh)

 ESA63628
 Size: 1200mm x 600mm x 640mm (lxdxh)

Student Table

Table top are made of 18mm thick melamine laminated MDF with PVC Edging on all sides Top support from epoxy powder coated mild steel angle with wired basket under the top Skid frame from epoxy powder coated mild steel pipe epoxy powder coated with glides end cap

 ESA63630
 Size: 700mm x 500mm x 710mm (lxdxh)

 ESA63631
 Size: 700mm x 500mm x 760mm (lxdxh)

 ESA63632
 Size: 700mm x 500mm x 820mm (lxdxh)



Student Table Free-form Kg

Free-form student table low height with melamine laminated MDF top with PVC edging for safety. With metal legs epoxy powder coated , Table top from 19mm thick melamine laminated MDF with 3mm thick PVC edging , Top support from 40x20x1.5mm thick mild steel tube with epoxy powder coating , Legs frame from 38mm dia x 1.5mm thick mild steel pipe epoxy powder coated. **Dimensions:** 1650x1150x520m (LxDxH)

ESA63635



Teacher Table

Size: 1300x600x760mm (LxDxH)

Table top from 24mm thick melamine laminated MDF with 2mm thick PVC edging on all sides

Skid frame from epoxy powder coated mild steel pipe epoxy powder coated with glides end cap

Front panel, side panel and shelf from 18mm thick melamine laminated MDF Built-in drawer from 18mm thick melamine laminated MDF





Laptop Table, Oval Type

Oval shape laptop table at lounge level with MDF laminated finish top with PVC edging with tubular frame with height adjustable feet, Top are made of 19mm thick melamine laminated MDF with PVC edging, Frame from 25x25x2mm thick epoxy powder coated mild steel tube with height adjustable feet.

Dimensions: 510x380x660mm (LxDxH)

ESA63643



Chair C Frame PP Shell

Steel tube framework, chair stackable, floor gliders with felt glide surfaces exchangeable insert, seat shell with elliptic grip hole, ergonomically shaped, Synthetic seat and back stackable armless with cantilever epoxy powder coated frame

ESA63647	Shell h 31cm	Seat height 31 cm
ESA63652	Shell h 35cm	Seat height 35 cm
ESA63657	Shell h 38cm	Seat height 43 cm
ESA63662	Shell h 43cm	Seat height 46 cm
ESA63667	Shell h 46cm	Seat height 38 cm
ESA63672	Shell h 51cm	Seat height 51 cm



Student Art, Science Stool

Adjustable height staff task stool with synthetic seat and back, chrome footing with aluminium star base with castor wheels, Synthetic seat shell, five-base turnstile of polished aluminium pressure casting on castors with soft running surface, height adjustable foot-ring Dia 46 cm of chromed-steel tube , Seat height infinitely adjustable through gas compression spring

Dimensions: Adjustable height from 40.5 to 53 cm

ESA63678



Open Shelve Cabinet Wooded With 25 Compt.

Tel: +44 (0)203 8685740

Storage unit with fixed back panel, top shelf, bottom shelf and middle panel dividers with 25 no. Open compartment with 25 no. Removable plastic tote containers, Cabinet panels and shelves are made of 18mm thick melamine laminated MDF with PVC edging, Cabinet back panel from 6mm thick one side melamine faced MDF.

Dimensions: 1875x450x1170mm (LxDxH)





Open Shelve Cabinet Wooded With 8 Totes,

Height 1

Open shelving unit with middle vertical partition with 8 no. Compartments and 8 No. Removable plastic trays. Cabinet panels and shelves are made of 18mm thick melamine laminated MDF with PVC edging, Cabinet back panel from 6mm thick one side melamine faced MDF ,

Dimensions: 750x450x915mm (LxDxH)

ESA63682



Open Shelve Cabinet Wooden With 12 Totes,

Height 2

Open shelving unit with middle vertical partition with 12 no. Compartments and 12 No. Removable plastic containers trays. Cabinet panels and shelves are made of 18mm thick melamine laminated MDF with PVC edging , Cabinet back panel from 6mm thick one side melamine faced MDF ,

Dimensions: 750x450x1675mm (LxDxH)

ESA63683



Open Shelving Unit, 3 Shelves H 1

Open shelving unit with 3 adjustable shelves, Cabinet panels and shelves are made of 18mm thick melamine laminated MDF with PVC edging, Cabinet back panel from 6mm thick one side melamine faced MDF, Adjustable shelves by means of shelf pin.

Dimensions: 750x450x1220mm (LxDxH)

ESA63684



Open Shelving Unit, 5 Shelves H 2

Open shelving unit with 5 adjustable shelves , Cabinet panels and shelves are made of 18mm thick melamine laminated MDF with PVC edging , . Cabinet back panel from 6mm thick one side melamine faced MDF , Adjustable shelves by means of shelf pin.

Dimensions: 750x450x1520mm (LxDxH)

ESA63685





Open Shelving Metal, Depth 1

Heavy duty metal open shelving with 4 shelves with cross bar support , Vertical frame from 40x40x2mm thick mild steel slotted angle with epoxy powder coating , Adjustable shelves from 1.2mm thick mild steel sheet with epoxy powder coating , Cross bar support from 25x3mm thick mild steel flat bar with epoxy powder coating .

Dimensions: 900x460x2135mm (LxDxH)

ESA63686

Open Shelving Metal, Depth 2

Heavy duty metal open shelving with 4 shelves with cross bar support, Vertical frame from 40x40x2mm thick mild steel slotted angle with epoxy powder coating, Adjustable shelves from 1.2mm thick mild steel sheet with epoxy powder coating, Cross bar support from 25x3mm thick mild steel flat bar with epoxy powder coating.

Dimensions: 900x610x2135mm (LxDxH)

ESA63687



Book Display Unit, 4 Sided With 5 Compartments

Free-standing mobile book display unit with total 20 no. Book display compartments. The display compartments occur on all 4 no. Sides with 5 no levels on each side of the unit, Panels composite are made of 18mm thick melamine laminated MDF with PVC edging on all exposed edges for user safety, With 100mm dia non staining castor.

Dimensions: W580mm x D580mm X H 1750mm

ESA63696



Book Browser Unit, Mobile, Open Top

Mobile book browser with 4 compartment for storage of books and magazines, Side panels, divider and base from 18mm thick melamine laminated MDF with PVC edging, With 4 no. Compartment for book and magazine storage, With 100mm dia heavy duty castor.

Dimensions: 600x600x450mm (LxDxH)





Storage Cabinet Wooden With Doors 4 Shelves

Lockable cabinet with combination wardrobe. One side unit consists of 4 adjustable shelves and other unit with chrome plated oval tube hanging rod. Both doors are lockable ,Cabinet door, panels and shelves are made of 18mm thick melamine laminated MDF with PVC edging , Cabinet back panel from 6mm thick one side melamine faced MDF ,Hanging rod from oval tube chrome plated , Adjustable shelves by means of shelf pin .

Dimensions: 900x600x2130mm (LxDxH)

ESA63706

Storage Cabinet Wooden With Doors 5 Shelves

Lockable storage cabinet with hinge door with 5 adjustable shelves ,Cabinet door, panels and shelves are made of 18mm thick melamine laminated MDF with PVC edging , Cabinet back panel from 6mm thick one side melamine faced MDF , Doors with square lock and heavy duty tower bolts , Adjustable shelves by means of shelf pin .

Dimensions: 900x600x2130mm (LxDxH)

ESA63707



DVD/CD Display Stand Unit

Double sided stand unit 1 no. Browser shelf component with divided compartments component on each side, Panes and made of 18mm thick melamine laminated MDF with PVC edging for users safety, Browser compartment from epoxy powder coated mild steel sheet with grooved matting rubber, Base with plastic glides.

Dimensions: 1200x800x1000mm (LxDxH)

ESA63715



Book Browser Unit, Mobile, Combination, Shelf, Box And Hanger Road.

Mobile book browser unit with 2 no. Horizontal shelves on each sides. 1 no. Top box compartment and top hanger rod , Browser unit panel are made of 18mm thick melamine laminated MDF with PVC edging , Frame components from mild steel epoxy powder coated , With 100mm dia castor.

Dimensions: 900x400x900mm (LxDxH)

ESA63702



Material Storage Cabinet Wooden

Material storage cabinet with 2 lockable door. With internal divider and with fixed and adjustable shelves. Including plastic tote containers and louver panels to be fixed at the door, Cabinet door, panels and shelves are made of 18mm thick melamine laminated MDF with PVC edging, Back panel from 6mm thick one side melamine faced MDF, Door are lockable and at the back of the door with louvre to hang the trays.

Dimensions: 1000x750x1830mm (LxDxH)





Library Search Station LH

Rectangular library table with laminated finish with PVC edging. Leg base from round mild steel, privacy frame and top frame from mild steel tube epoxy powder coated. With fixed type CPU holder, cable cover and wire management, Top from 25mm thick melamine laminated MDF with PVC edging, Privacy panel from 18mm thick melamine laminated MDF with PVC edging, Top support and privacy frame from epoxy powder coated mild steel tube **Dimensions:** 1500x750x590mm (LxDxH)

ESA63716

ESA63717

Library Search Station MH

Rectangular library table with laminated finish with PVC edging. Leg base from round mild steel, privacy frame and top frame from mild steel tube epoxy powder coated. With fixed type CPU holder, cable cover and wire management, Top from 25mm thick melamine laminated MDF with PVC edging, Privacy panel from 18mm thick melamine laminated MDF with PVC edging, Top support and privacy frame from epoxy powder coated mild steel tube, Fixed type CPU holder from 18mm thick melamine laminated MDF, Leg frame from epoxy powder coated round mild steel with height adjustable feet.

Dimensions:*1500x750x640mm (LxDxH)

Library Search Station HH

Rectangular library table with laminated finish with PVC edging. Leg base from round mild steel, privacy frame and top frame from mild steel tube epoxy powder coated. With fixed type CPU holder, cable cover and wire management, Top from 24mm thick melamine laminated MDF with PVC edging, Privacy panel from 18mm thick melamine laminated MDF with PVC edging, Top support and privacy frame from epoxy powder coated mild steel tube, Fixed type CPU holder from 18mm thick melamine laminated MDF, Leg frame from epoxy powder coated round mild steel with height adjustable feet **Dimensions:** 1500x750x760mm (LxDxH)

ESA63718



White Board Square Type

Porcelain enamel faced marker board, Magnetic porcelain finish board sheet white, Back from 9mm thick MDF with aluminium foil tape, With aluminium profile side rail and with pen tray.

Dimensions: 1220x1220mm (LxH)

ESA63722



United Kingdom ———— Tel: +44 (0)203 8685740



Art Cart Kg

Mobile Art Cart consisting with fixed divider, with 2 no shelves and anodized rod as guard rails. With bottom 2-drawer box and sides panel with bow handle, Structure are made of 18mm thick melamine laminated MDF with 3mm thick PVC edging, Anodized rod as guard rails to prevent materials from falling, castor from 75mm dia.

Dimensions: 1050x400x900mm (LxDxH).

ESA63728

Art Cart Mobile

Mobile Art Cart consisting of top supply tray with with fixed divider, 2 no of with shelves anodized rod as guard rails. With bottom 2-drawer box and sides panel with bow handle, Structure are made of 18mm thick melamine laminated MDF with 3mm thick PVC edging, Anodized rod as guard rails to prevent materials from falling, castor from 75mm dia.

Dimensions:1050x400x900mm (LxDxH).

SA63729



Display Board Mobile,4 Fold

4 Fold Mobile Tack Board with tubular frame epoxy powder coated. All front side tack board with fabric and back side with melamine laminate , Double sided tack board with fabric as per manufacturer standard , Frame from 25x25x2mm thick epoxy powder coated mild steel tube , Leg frame from epoxy powder coated 21mm dia mild steel pipe , With 50mm dia castor.

Dimensions: Board Size: 1200x1500mm (LxH) Total Height 1900mm

ESA63724



Outdoor Chair, Adult

Outdoor chair without backrest with strip solid wood seat , Seat in strip solid wood with wood shield finish , Frame from epoxy powder coated mild steel tube with height adjustable feet.

www.eduscienceuk.com

Dimensions: 1500x450x450mm (LxDxH)

ESA63778



Outdoor table for adult in solid Wood top with epoxy powder coated metal frame, Top from solid wood with Polyurethane Finish, Frame from epoxy powder coated mild steel tube with height adjustable feet.

Dimensions: 1500x750x750mm (LxDxH)

ESA63779



Display Board Mobile, Double Sided White&Tack

Mobile one side tack board and one side marker board with tubular frame epoxy powder coated. With castors and 2 with breaks diagonally , Magnetic porcelain finish board sheet white for marker board , With 6mm thick cork board with fabric with 3mm thick MDF inner base , With aluminium profile side rail and with pen tray for marker board , Metal frame from 50x25x1.5mm thick Mild steel tube with epoxy powder coating .

Dimensions : Board Size: 1250x1370mm (LxH) Total Dimension: 1300x500x1800mm (LxDxH)



8-channel Electronic Pipette	290
A	
A02P2	261
A05P2	261
A2-12Pfor ESL2012Pro only	261
A15V	270
Absorption Tube With Side Arm	42
Acid Base Titration: an Inquiry Investigation	29
Acids , Bases And Salt , Micro-chem Kit	34
Acids , Bases And Salt , Micro-chem Refil	34
Acids And Bases I Kit	26
AC power Charging Cabinet	314
Actuator Set	21
Adapter 4mm – BT	16
Adult Tracheotomy Care Simulator	65
Advance Chemistry Kit	39
Advanced Inspection and Palpation of Breast Simulator	67
Advanced Microchemistry, Class-pack	35
Advanced Microchemistry, Single Kit	35
ADVANCE TRAUMA SIMULATOR	67
AED Simulator and CPR Manikin Set	65
Anaerobic Incubator	217
Anaerobic Incubator	217
Anaerobic Incubator	217
Angle Sensor *	13
Ap Chemistry Series (Includes Kit ESC54235)	32
Ap Chemistry Series (Includes Kit ESC54236)	32
Apron Disposable Blue Universal Size Pk/100	°5
Apron Disposable White Universal Size PK/100	55
Art Cart Kg	331
Art Cart Mobile	331
Autoclave Media	218
Automatic Water Still	234
Auto Pipettes Single Channel	292
В	
Balance ,Physics Balance 2 Pan, Hydrostatic	175
Balance 2 Pan, Plastic	175
Balance Digital- 600G/0.01G	176
Balance Digital Analytical	177
Balance Digital Basic	177
Balance Digital Basic	177
Balance Digital Precession	177
Balance Four Beam Balance 310g	175
Balance Table Top 2 Pan,Roberval , 2 Kg	175
Balance Triple Beam	175
Balance Weight Physical	178
Banana Plugs With wire	199
Banana Plugs With wire	199
Base Retort	156
Basic Casualty Simulation Kit	66

Basic Chemistry Bundle Kit	160
Basic Chemistry Sensors Bundle Kit	14
Basic Microchemistry, Class Pack Kit	35
Basic Microchemistry, Single Kit	34
Basic Model	245
Bathroom Scale Digital	175
Bathroom Scale Mechanical	175
Battery Eliminator DC 6-0 V , 1 A	200
Battery Holder	197
Battery Holders Pk Of 10	197
Battery UV Unit	200
Beaker (Euro Design) PP	146
Beaker Griffin Low Form PMP	147
Beaker Griffin Low Form PP	147
Beaker Low Form ,Heavy Duty	146
Beaker Low Form	146
Beaker Low Form	146
Beaker Tall Form	146
Beaker With Handle Low Form PMP,	147
Beaker With Handle Low Form PP	147
Beehive Shelf	42
Bench Mats	164
Bench Mats	164
Bench Top Environment Cabinet Enclosure	236
Biochemistry Student Kit	37
Biohazard Bags Pack of one hundred	63
Biohazard Kit	61
Bio Hazard Safety Cabinet	299
Blue Litmus Paper Pk/100 strips	166
Blue Pk/200 Strips	166
Book Browser Unit, Mobile, Combination,Shelf,Box And Hanger Road.	329
Book Browser Unit, Mobile, Open Top	328
Book Display Unit,4 Sided With 5 Compartments	328
Boro 3.3 Glass	45
Boss Head	157
Bottle Dropping Amber	149
Bottle Dropping Clear	149
Bottle Dropping Dispensing -LDPE	151
Bottle Dropping Glass Pipette	149
Bottle Reagent, Clear Glass	148
Bottle Reagent Amber , Narrow Mouth	148
Bottle Reagent Autoclavable Screw Cap And Pouring Ring	148
Bottle Round Boston Amber-HDPE	150
Bottle Round Boston Amber-HDPE	150
Bottle Round Boston HDPE	149
Bottle Round Boston HDPE	150
Bottle Round Boston LDPE	149
Bottle Round Boston LDPE	150
Bottle Round Boston PP	150



Bottle Round Boston PP	150
BOTTLE TOP DISPENSER	280
Bottle Top Dispenser Advance	280
Bottle Top Dispenser Electronic 99.9-0.1 ml	280
Breast Examination Simulator	67
Brush Beaker	154
Brush Burette	154
Brush Cylinder	154
Brush Flask	154
Brush Pipette	154
Brush Test Tube	154
BT-BT Extension cable (analogue)	16
BT - IEEE1394 cable	16
Bunsen Burner	164
Bunsen Burner Nickel	164
Burette 50 ml Class B	141
Burette Clamp	157
Burette Class As	141
Burette Class As	141
Burette Class AS With PTFE Key Stopcock	140
Burette Class B	141
Burette Class B	141
Burette Class B With Detachable PTFE Key Stopcock	140
Burette Class B With PTFE Key Stopcock	140
Burette Rack Wooden	159
Burette Stand	159
Buzzer Piezo	197
C	
Carbon 60 Model	38
Carbon Nano-tube Model	38
Carbon Rod	44
Carboy Rectangular With Stopcock -HDPE	151
Carboy With Spigot LDPE	151
Cell holder	197
Centrifuge Basic	262
Centrifuge Basic LCD	262
Centrifuge Hand, 2 X 15ml	278
Centrifuge Hand, 4 X 15ml	278
Centrifuge Tube , Conical Bottom, Graduated	278
Centrifuge Tube Sterile Bulk-Pp, 15ml	278
Chair C Frame PP Shell	326
Channel Base for protection screen	52
Characteristics Of Matter	23
Charls Law Apparatus Pk Of 10	27
Charls Law Apparatus Single	27
Chemical Equations Ii Kit	24
Chemical Equations I Kit	24
Chemical Formulas li Kit	24
Chemical Formulas I Kit	24
Chemical Formulas I Refill	24

Chemical Properties Kit Chemical Properties Refill Chemical Spill Kit, Giltre Chemical Spill Kit, Giltre Chemical Spill Kit, Giltre Chemical Spill Roster Chemistry Sensors Extension Bundle Kit Chemical Spill Roster Child CPR Training Manikin Chromatography Paper Roll G N 1 33 Chromatography Paper Sheet G N 1 33 Chromatography Paper Sheet G N 1 33 Chromatography Tank With Lid 33 Chromatography Tank With Lid 33 Chromatography Tank With Lid 33 Chromium Resistance 198 Clamp Universal Clamp Universal Clamp Universal Clamp Universal Clamp Universal Clolical Thermometer Digital Flexi-Head 174 CMES Data Logger CO2 Incubator / CO2, O2 Incubator 215 Coach 7 Desktop 10 Cobalt Chloride Test Paper 166 Cobalt Glass 165 Colorimeter 1G-7 190 Colorimeter 1G-7 190 Colorimeter 2.0 Basic Colorimeter 2.0 Basic Colorimeter 2.0 Basic Colorimeter 2.0 Basic Set/4 190 Colorimeter Sensor 10 Computer Student Table 310 Computer Student Table 310 Computer Student Table 310 Condenser, Air Coil Conductivity TDS Portable Meter Kit 188 Conductivity Meter Pen Type 184 Conductivity Meter Pen Type 184 Conductivity Meter Pen Type 184 Conductivity Meter Pocket Type 184 Conductivity Sensor 11 Connecting Wire With 1 Side Amm Lead & 1 Side Crocodile clips Copper Model Kit Copper Wire 198 Cork Borer Set 12 Cork Borer Set 6 161 Cork Stopper Bark Cork Stopper Bark Cork Stopper Assorted PK 160 Cork Stopper Bark Cort Nowol Absorbent 63 CPR Training Manikin Half-body Basic Economy 65 Crescent Table Crocodile Clip Wth Plastic Sleeved Red Pk/10 199 Crucible Porcelain 153 Crucible Porcelain 153		
Chemical Spill Kit, 6 litre chemical spill kit chemical spill kit Chemical Spills Poster 61 Chemical Spills Poster 61 Chemistry Sensors Extension Bundle Kit 14 Child CPR Training Manikin 64 Chlorine Test Strip 155 Chromatography Paper Roll G N 1 33 Chromatography Paper Roll G N 1 33 Chromatography Paper Sheet G N 1 33 Chromatography Tank With Lid 33 Chromium Resistance 198 Clamp Universal, Assorted 157 Clamp Universal Clinical Thermometer Digital Flexi-Head 174 CMES Data Logger 10 CO2 Incubator / CO2, O2 Incubator 215 Coach 7 Desktop 10 Cobalt Chloride Test Paper 166 Cobalt Glass 165 Colorimeter 1G-7 190 Colorimeter 2.0 Basic Colorimeter 2.0 Basic Set/4 190 Colorimeter Sensor 10 Computer Student Table 310 Computer Student Table 310 Condenser , Air Coil 45 Conductivity TDS Portable Meter Kit Conductivity Meter Pen Type 184 Conductivity Meter Pen Type 184 Conductivity Meter Pen Type 184 Conductivity Meter Pocket Type 199 Copper Model Kit 38 Copper Wire 199 Copper Model Kit 38 Copper Wire 199 Cork Stopper Assorted PK 160 Corton Wool Absorbent 63 CPR Training Manikin Half-body Basic Economy 65 Crescent Table Crocodille Clip W/t10 Crocodille Clip With Plastic Sleeved Red Pk/10 199 Crucible Porcelain 153	Chemical Properties Kit	23
chemical spill kit Chemical Spills Poster Chemistry Sensors Extension Bundle Kit 14 Child CPR Training Manikin 64 Chlorine Test Strip 155 Chromatography Paper Roll G N 1 33 Chromatography Paper Sheet G N 1 34 Chromatography Paper Sheet G N 1 35 Chromatography Paper Sheet G N 1 36 Clamp Universal, Assorted 157 Clamp Universal, Assorted 157 Clamp Universal 156 Clinical Thermometer Digital Flexi-Head 174 CMES Data Logger 10 CO2 Incubator / CO2, O2 Incubator 215 Coach 7 Desktop 10 Cobalt Chloride Test Paper 166 Cobalt Glass 165 Colorimeter 1G-7 190 Colorimeter 1G-7 190 Colorimeter 1G-7 190 Colorimeter 2.0 Basic Colorimeter 2.0 Basic 20 Incubator / CO2, O2 Incubator 215 Colorimeter Sensor 10 Computer Student Table 310 Computer Student Table 310 Computer Student Table 310 Computer Teacher Table 310 Conductivity/TDS Portable Meter Kit Conductivity/TDS Portable Meter Kit Conductivity Meter Pen Type 184 Conductivity Meter Pen Type 184 Conductivity Meter Pocket Type 184 Conductivity Meter Pocket Type 184 Conductivity Sensor 11 Connecting Wire With 1 Side 4mm Lead & 1 Side Crocodile clips 199 Copper Model Kit 38 Copper Wire 198 Cork Borer Set 12 161 Cork Stopper Assorted PK 160 Corcodille Clip With Plastic Sleeved Red Pk/10 199 Crucible Porcelain 153	Chemical Properties Refill	23
Chemical Spills Poster Chemistry Sensors Extension Bundle Kit Child CPR Training Manikin 64 Chlorine Test Strip 155 Chromatography Paper Roll G N 1 33 Chromatography Paper Sheet G N 1 33 Chromatography Paper Sheet G N 1 33 Chromatography Tank With Lid 33 Chromatography Tank With Lid 33 Chromium Resistance 198 Clamp Universal, Assorted 157 Clamp Universal Flexi-Head 174 CMES Data Logger 10 CO2 Incubator / CO2, O2 Incubator 215 Coach 7 Desktop 10 Cobalt Chloride Test Paper 166 Cobalt Glass 165 Colorimeter 1G-7 190 Colorimeter 2.0 Basic Colorimeter 2.0 Basic Colorimeter 2.0 Basic Set/4 190 Colorimeter Sensor 10 Computer Student Table 310 Computer Teacher Table 310 Condenser , Air Coil 45 Conductivity/TDS Portable Meter Kit 188 Conductivity Meter Pen Type 184 Conductivity Meter Pen Type 184 Conductivity Meter Pen Type 184 Conductivity Meter Pocket Type 184 Conductivity Sensor 11 Connecting Wire With 1 Side 4mm Lead & 1 Side Crocodile clip Copper Model Kit Copper Wire 198 Corpore Set 6 161 Cork Borer Set 12 166 Cork Stopper Sasorted PK 160 Cork Stopper Sasorted PK 160 Cork Stopper Assorted PK 160 Cork Stopper Assorted PK 160 Cort Stopper Bark 160 Cort Cotton Wool Absorbent 63 CPR Training Manikin Half-body Basic Economy 65 Crescent Table Crocodile Clip W/10 Crocodile Clip With Plastic Sleeved Red Pk/10 199 Crucible Porcelain 153	Chemical Spill Kit, 6 litre	61
Chemistry Sensors Extension Bundle Kit Child CPR Training Manikin 64 Chlorine Test Strip 155 Chromatography Paper Roll G N 1 33 Chromatography Paper Sheet G N 1 33 Chromatography Paper Sheet G N 1 33 Chromatography Tank With Lid 33 Chromium Resistance 198 Clamp Universal, Assorted 157 Clamp Universal Clinical Thermometer Digital Flexi-Head 174 CMES Data Logger 10 CO2 Incubator / CO2, O2 Incubator 215 Coach 7 Desktop 10 Cobalt Chloride Test Paper 166 Cobalt Glass 165 Colorimeter 1G-7 190 Colorimeter 2.0 Basic Colorimeter 2.0 Basic Colorimeter 2.0 Basic Set/4 190 Colorimeter Sensor 10 Computer Student Table 310 Computer Teacher Table 310 Condenser , Air Coil 45 Conductivity TDS Portable Meter Kit 188 Conductivity Meter Pen Type 184 Conductivity Meter Pen Type 184 Conductivity Meter Pocket Type 184 Conductivity Meter Pocket Type 184 Connecting Wire With 1 Side 4mm Lead & 1 Side Crocodille clip Corper Model Kit 20per Wire 20per Model Kit 20per Wire 20per Model Kit 20per Set 6 20per Set 6 20per Set 6 20per Set 6 30per Set 12 20per Assorted PK 30per Set 6 30per Se	chemical spill kit	61
Child CPR Training Manikin Chlorine Test Strip 155 Chromatography Paper Roll G N 1 33 Chromatography Paper Sheet G N 1 33 Chromatography Paper Sheet G N 1 33 Chromatography Tank With Lid 33 Chromium Resistance 198 Clamp Universal, Assorted 157 Clamp Universal Clamp Universal Clamp Universal Clamp Universal 156 Clinical Thermometer Digital Flexi-Head 174 CMES Data Logger 10 CO2 Incubator / CO2, O2 Incubator 215 Coach 7 Desktop 10 Cobalt Chloride Test Paper 166 Cobalt Glass 165 Colorimeter 1G-7 190 Colorimeter 2.0 Basic 190 Colorimeter 2.0 Basic Set/4 190 Colorimeter Sensor 10 Computer Student Table 310 Computer Teacher Table 310 Computer Teacher Table 310 Condenser , Air Coil 45 Conductivity/TDS Portable Meter Kit 188 Conductivity Meter Pen Type 184 Conductivity Meter Pocket Type 184 Conductivity Meter Pocket Type 184 Conductivity Meter Pocket Type 184 Conductivity Weter Pocket Type 184 Conductivity Were With 1 Side 4mm Lead & 1 Side Crocodile clips 199 Copper Model Kit 38 Copper Wire 198 Cork Borer Set 12 161 Cork Borer Set 12 161 Cork Sorper Sarrener 161 Cork Stopper Assorted PK 160 Cork Stopper Assorted PK 160 Cotton Wool Absorbent 63 CPR Training Manikin Half-body Basic Economy 65 Crescent Table Crocodile Clip Pk/10 Crucible Porcelain 153	Chemical Spills Poster	61
Chlorine Test Strip Chromatography Paper Roll G N 1 33 Chromatography Paper Sheet G N 1 33 Chromatography Paper Sheet G N 1 33 Chromatography Tank With Lid 33 Chromium Resistance 198 Clamp Universal, Assorted 157 Clamp Universal Clamp Universal Clamp Universal 156 Clinical Thermometer Digital Flexi-Head 174 CMES Data Logger 10 CO2 Incubator / CO2, O2 Incubator 215 Coach 7 Desktop 10 Cobalt Chloride Test Paper 166 Cobalt Glass 165 Colorimeter 1G-7 190 Colorimeter 2.0 Basic Colorimeter 2.0 Basic 190 Colorimeter Sensor 10 Computer Student Table 310 Computer Teacher Table 310 Condenser , Air Coil 45 Conductivity/TDS Portable Meter Kit 188 Conductivity Meter Pen Type 184 Conductivity Meter Pocket Type 184 Conductivity Meter Pocket Type 184 Conductivity Meter Pocket Type 184 Conductivity Weter Pocket Type 199 Connecting Wire With 1 Side 4mm Lead & 1 Side Crocodile clips 199 Copper Model Kit 38 Copper Wire 198 Cork Borer Set 12 161 Cork Borer Set 12 161 Cork Stopper Assorted PK 160 Cork Stopper Assorted PK 160 Cotton Wool Absorbent 63 CPR Training Manikin Half-body Basic Economy 65 Crescent Table Crocodile Clip Pk/10 Crucible Porcelain 153	Chemistry Sensors Extension Bundle Kit	14
Chromatography Paper Roll G N 1 33 Chromatography Paper Sheet G N 1 33 Chromatography Paper Sheet G N 1 33 Chromatography Tank With Lid 33 Chromatography Tank With Lid 33 Chromium Resistance 198 Clamp Universal, Assorted 157 Clamp Universal 156 Clinical Thermometer Digital Flexi-Head 174 CMES Data Logger 10 CO2 Incubator / CO2, O2 Incubator 215 Coach 7 Desktop 10 Cobalt Chloride Test Paper 166 Cobalt Glass 165 Colorimeter 1G-7 190 Colorimeter 2.0 Basic 190 Colorimeter 2.0 Basic 190 Colorimeter Sensor 10 Computer Student Table 310 Computer Student Table 310 Condenser , Air Coil 45 Conductivity TDS Portable Meter Kit 188 Conductivity Meter Pen Type 184 Conductivity Meter Pen Type 184 Conductivity Meter Pocket Type 184 Conductivity Meter Pocket Type 184 Conductivity Sensor 11 Connecting Wire With 1 Side 4mm Lead & 1 Side Crocodile clip Copper Model Kit 38 Copper Wire 199 Copper Model Kit 20per Wire 199 Corper Sharpener 161 Cork Sorer Set 12 Cork Borer Set 12 Cork Sorer Set 6 161 Cork Stopper Assorted PK 160 Cork Stopper Bark 160 Cotton Wool Absorbent 63 CPR Training Manikin Half-body Basic Economy 65 Crescent Table Crocodile Clip Pk/10 Crucible Porcelain 153	Child CPR Training Manikin	64
Chromatography Paper Sheet G N 1 33 Chromatography Tank With Lid 33 Chromium Resistance 198 Clamp Universal, Assorted 157 Clamp Universal 156 Clinical Thermometer Digital Flexi-Head 174 CMES Data Logger 10 CO2 Incubator / CO2, O2 Incubator 215 Coach 7 Desktop 10 Cobalt Chloride Test Paper 166 Cobalt Glass 165 Colorimeter 1G-7 190 Colorimeter 2.0 Basic Colorimeter 2.0 Basic Colorimeter 2.0 Basic Set/4 190 Colorimeter Sensor 10 Computer Student Table 310 Computer Teacher Table 310 Condenser , Air Coil 45 Conductivity TDS Portable Meter Kit 188 Conductivity Meter Pen Type 184 Conductivity Meter Pen Type 184 Conductivity Meter Pocket Type 184 Conductivity Meter Pocket Type 199 Connecting Wire With 1 Side 4mm Lead & 1 Side Crocodile clip Corper Model Kit 38 Copper Wire 199 Copper Model Kit 20rk Borer Set 12 161 Cork Stopper Assorted PK 160 Cork Stopper Bark 160 Cotton Wool Absorbent 63 CPR Training Manikin Half-body Basic Economy 65 Crescent Table Crocodile Clip Pk/10 Crucible Porcelain 153	Chlorine Test Strip	155
Chromatography Tank With Lid Chromium Resistance 198 Clamp Universal, Assorted 157 Clamp Universal 156 Clinical Thermometer Digital Flexi-Head 174 CMES Data Logger 10 CO2 Incubator / CO2, O2 Incubator 215 Coach 7 Desktop 10 Cobalt Chloride Test Paper 166 Cobalt Glass 165 Colorimeter 1G-7 190 Colorimeter 2.0 Basic 190 Colorimeter 2.0 Basic Set/4 190 Colorimeter Sensor 10 Computer Student Table 310 Computer Teacher Table 310 Computer Teacher Table 310 Condautivity/TDS Portable Meter Kit 188 Conductivity EC /TDS/Salinity Pocket Tester Kit 184 Conductivity Meter Pen Type 184 Conductivity Meter Pocket Type 184 Conductivity Meter Pocket Type 184 Conductivity Sensor 11 Connecting Wire With 1 Side 4mm Lead & 1 Side Crocodile clips Copper Model Kit 38 Copper Model Kit 38 Copper Model Kit 38 Cork Borer Set 12 161 Cork Borer Set 6 161 Cork Stopper Assorted PK 160 Cork Stopper Bark 160 Cotton Wool Absorbent 63 CPR Training Manikin Half-body Basic Economy 65 Crescent Table Crocodile Clip Pk/10 Crucible Porcelain 153	Chromatography Paper Roll G N 1	33
Chromium Resistance Clamp Universal, Assorted Clamp Universal, Assorted Clamp Universal Clinical Thermometer Digital Flexi-Head CMES Data Logger 10 CO2 Incubator / CO2, O2 Incubator Coach 7 Desktop 10 Cobalt Chloride Test Paper 166 Cobalt Glass 165 Colorimeter 1G-7 190 Colorimeter 2.0 Basic Colorimeter 2.0 Basic Colorimeter Sensor 10 Computer Student Table 310 Computer Teacher Table 310 Condenser , Air Coil Conductivity/TDS Portable Meter Kit 188 Conductivity EC / TDS/Salinity Pocket Tester Kit 184 Conductivity Meter Pen Type 184 Conductivity Meter Pocket Type 184 Conductivity Meter Pocket Type 184 Conductivity Sensor 11 Connecting Wire With 1 Side 4mm Lead & 1 Side Crocodile clip Copper Model Kit 38 Copper Wire Copper Model Kit 38 Copper Wire 199 Cork Borer Set 12 161 Cork Borer Set 12 161 Cork Stopper Assorted PK 160 Cork Stopper Bark 160 Cotro Wool Absorbent 63 CPR Training Manikin Half-body Basic Economy 65 Crescent Table Crocodile Clip Pk/10 Crocodile Clip With Plastic Sleeved Red Pk/10 199 Crucible Porcelain 153	Chromatography Paper Sheet G N 1	33
Clamp Universal, Assorted Clamp Universal Clinical Thermometer Digital Flexi-Head CMES Data Logger 10 CO2 Incubator / CO2, O2 Incubator Coach 7 Desktop 10 Cobalt Chloride Test Paper Colorimeter 1G-7 Colorimeter 2.0 Basic Colorimeter 2.0 Basic Set/4 190 Colorimeter Sensor 10 Computer Student Table Computer Teacher Table Conductivity/TDS Portable Meter Kit Conductivity Meter Pen Type 184 Conductivity Meter Pocket Type 184 Conductivity Meter Pocket Type 184 Conductivity Meter Pocket Type 184 Conductivity Wire With 1 Side 4mm Lead & 1 Side Crocodile clip Clip Cork Borer Set 12 Cork Borer Set 12 Cork Borer Set 6 Cork Stopper Bark Cotton Wool Non Absorbent Corescent Table 325 Crocodile Clip Pk/10 Crocodile Clip Pk/10 Crocodile Clip Pk/10 Crocodile Clip With Plastic Sleeved Red Pk/10 199 Crucible Porcelain 153	Chromatography Tank With Lid	33
Clamp Universal Clinical Thermometer Digital Flexi-Head CMES Data Logger 10 CO2 Incubator / CO2, O2 Incubator Coach 7 Desktop 110 Cobalt Chloride Test Paper 166 Cobalt Glass 165 Colorimeter 1G-7 190 Colorimeter 2.0 Basic Colorimeter 2.0 Basic Set/4 190 Colorimeter Sensor 10 Computer Student Table 310 Computer Teacher Table 310 Condenser , Air Coil 45 Conductivity/TDS Portable Meter Kit 188 Conductivity Meter Pen Type 184 Conductivity Meter Pen Type 184 Conductivity Meter Pocket Type 184 Conductivity Meter Pocket Type 184 Conductivity Wirh 1 Side 4mm Lead & 1 Side Crocodile clip Copper Model Kit 38 Copper Wire Cork Borer Set 12 161 Cork Borer Set 6 161 Cork Stopper Bark 160 Cork Stopper Bark 160 Cotton Wool Absorbent 63 CPR Training Manikin Half-body Basic Economy Crescent Table Crocodile Clip Pk/10 Crocodile Clip With Plastic Sleeved Red Pk/10 199 Crucible Porcelain 153	Chromium Resistance	198
Clinical Thermometer Digital Flexi-Head CMES Data Logger 10 CO2 Incubator / CO2, O2 Incubator Coach 7 Desktop 10 Cobalt Chloride Test Paper 166 Cobalt Glass 165 Colorimeter 1G-7 190 Colorimeter 2.0 Basic Colorimeter 2.0 Basic Set/4 190 Colorimeter Sensor 10 Computer Student Table 310 Computer Teacher Table 310 Condenser , Air Coil 45 Conductivity/TDS Portable Meter Kit 188 Conductivity Meter Pen Type 184 Conductivity Meter Pen Type 184 Conductivity Meter Pocket Type 184 Conductivity Sensor 11 Connecting Wire With 1 Side 4mm Lead & 1 Side Crocodile clips Copper Model Kit 38 Copper Wire Cork Borer Set 12 161 Cork Stopper Assorted PK 160 Cork Stopper Assorted PK 160 Cotton Wool Absorbent 63 CPR Training Manikin Half-body Basic Economy Crocodile Clip Pk/10 Crocodile Clip With Plastic Sleeved Red Pk/10 199 Crucible Porcelain 153	Clamp Universal, Assorted	157
CMES Data Logger CO2 Incubator / CO2, O2 Incubator Coach 7 Desktop 10 Cobalt Chloride Test Paper Cobalt Glass 165 Colorimeter 1G-7 190 Colorimeter 2.0 Basic Colorimeter Sensor 10 Computer Student Table Computer Teacher Table Conductivity/TDS Portable Meter Kit Conductivity Meter Pen Type 184 Conductivity Meter Pocket Type Conductivity Meter Pocket Type Conductivity Sensor 11 Connecting Wire With 1 Side 4mm Lead & 1 Side Crocodile clip Copper Model Kit 38 Copper Wire Cork Borer Set 12 Cork Borer Set 6 Cork Stopper Assorted PK Cotton Wool Absorbent Corescent Table 325 Crocodile Clip Pk/10 Crocodile Clip With Plastic Sleeved Red Pk/10 199 Crucible Porcelain 153	Clamp Universal	156
CO2 Incubator / CO2, O2 Incubator Coach 7 Desktop Cobalt Chloride Test Paper Cobalt Glass 165 Colorimeter 1G-7 190 Colorimeter 2.0 Basic Colorimeter Sensor Computer Student Table Computer Teacher Table Conductivity/TDS Portable Meter Kit Conductivity FC /TDS/Salinity Pocket Tester Kit Conductivity Meter Pen Type 184 Conductivity Meter Pocket Type Conductivity Wire With 1 Side 4mm Lead & 1 Side Crocodile clip Conper Model Kit Copper Model Kit Copper Wire Cork Borer Set 12 Cork Borer Set 6 Cotton Wool Absorbent Cotton Wool Non Absorbent Crescent Table Crocodile Clip Pk/10 Crocodile Clip With Plastic Sleeved Red Pk/10 199 Crucible Porcelain 153	Clinical Thermometer Digital Flexi-Head	174
Coach 7 Desktop Cobalt Chloride Test Paper Cobalt Glass 165 Colorimeter 1G-7 190 Colorimeter 2.0 Basic Colorimeter 2.0 Basic Set/4 190 Colorimeter Sensor 10 Computer Student Table 310 Computer Teacher Table 310 Condenser , Air Coil 45 Conductivity/TDS Portable Meter Kit Conductivity EC /TDS/Salinity Pocket Tester Kit 184 Conductivity Meter Pen Type 184 Conductivity Meter Pocket Type 184 Conductivity Sensor 11 Connecting Wire With 1 Side 4mm Lead & 1 Side Crocodile clip Copper Model Kit 38 Copper Wire 199 Cork Borer Set 12 161 Cork Borer Set 6 161 Cork Stopper Assorted PK 160 Cotton Wool Absorbent 63 CPR Training Manikin Half-body Basic Economy Crescent Table Crocodile Clip With Plastic Sleeved Red Pk/10 199 Crucible Porcelain 153	CMES Data Logger	10
Cobalt Chloride Test Paper Cobalt Glass Colorimeter 1G-7 190 Colorimeter 2.0 Basic Colorimeter 2.0 Basic Set/4 190 Colorimeter Sensor 10 Computer Student Table 310 Computer Teacher Table 310 Condenser , Air Coil Conductivity/TDS Portable Meter Kit 188 Conductivity EC /TDS/Salinity Pocket Tester Kit Conductivity Meter Pen Type 184 Conductivity Meter Pocket Type 184 Conductivity Sensor 11 Connecting Wire With 1 Side 4mm Lead & 1 Side Crocodile clip Connecting Wire With 2 Side Crocodile clips 199 Copper Model Kit 38 Copper Wire 198 Cork Borer Set 12 161 Cork Stopper Assorted PK 160 Cork Stopper Bark 160 Cotton Wool Absorbent 63 CPR Training Manikin Half-body Basic Economy Crescent Table Crocodile Clip With Plastic Sleeved Red Pk/10 199 Crucible Porcelain 153	CO2 Incubator / CO2, O2 Incubator	215
Cobalt Glass Colorimeter 1G-7 Colorimeter 2.0 Basic Colorimeter 2.0 Basic Colorimeter 2.0 Basic Set/4 190 Colorimeter Sensor 10 Computer Student Table 310 Computer Teacher Table 310 Condenser , Air Coil 45 Conductivity/TDS Portable Meter Kit 188 Conductivity EC /TDS/Salinity Pocket Tester Kit 184 Conductivity Meter Pen Type 184 Conductivity Meter Pocket Type 184 Conductivity Sensor 11 Connecting Wire With 1 Side 4mm Lead & 1 Side Crocodile clip Copper Model Kit 38 Copper Wire 199 Cork Borer Set 12 Cork Borer Set 6 161 Cork Stopper Assorted PK 160 Cork Stopper Bark 160 Cotton Wool Absorbent 63 CPR Training Manikin Half-body Basic Economy Crescent Table Crocodile Clip With Plastic Sleeved Red Pk/10 199 Crucible Porcelain 153	Coach 7 Desktop	10
Colorimeter 1G-7 Colorimeter 2.0 Basic Colorimeter 2.0 Basic Set/4 190 Colorimeter Sensor 10 Computer Student Table 310 Computer Teacher Table 310 Condenser , Air Coil 45 Conductivity/TDS Portable Meter Kit 188 Conductivity EC /TDS/Salinity Pocket Tester Kit 184 Conductivity Meter Pen Type 184 Conductivity Meter Pocket Type 184 Conductivity Sensor 11 Connecting Wire With 1 Side 4mm Lead & 1 Side Crocodile clip Connecting Wire With 2 Side Crocodile clips 199 Copper Model Kit 38 Copper Wire 198 Cork Borer Set 12 Cork Borer Set 6 161 Cork Stopper Assorted PK 160 Cork Stopper Bark 160 Cotton Wool Absorbent 63 CPR Training Manikin Half-body Basic Economy Crescent Table Crocodile Clip With Plastic Sleeved Red Pk/10 199 Crucible Porcelain 153	Cobalt Chloride Test Paper	166
Colorimeter 2.0 Basic Colorimeter 2.0 Basic Set/4 190 Colorimeter Sensor 10 Computer Student Table 310 Computer Teacher Table 310 Condenser , Air Coil 45 Conductivity/TDS Portable Meter Kit 188 Conductivity EC /TDS/Salinity Pocket Tester Kit 184 Conductivity Meter Pen Type 184 Conductivity Meter Pocket Type 184 Conductivity Sensor 11 Connecting Wire With 1 Side 4mm Lead & 1 Side Crocodile clip Clip Connecting Wire With 2 Side Crocodile clips 199 Copper Model Kit 38 Copper Wire 198 Cork Borer Set 12 Cork Borer Set 6 161 Cork Stopper Assorted PK 160 Cork Stopper Bark 160 Cotton Wool Absorbent 63 CPR Training Manikin Half-body Basic Economy Crescent Table Crocodile Clip With Plastic Sleeved Red Pk/10 199 Crucible Porcelain 153	Cobalt Glass	165
Colorimeter 2.0 Basic Set/4 Colorimeter Sensor 10 Computer Student Table Computer Teacher Table Condenser , Air Coil Conductivity/TDS Portable Meter Kit Conductivity EC /TDS/Salinity Pocket Tester Kit 184 Conductivity Meter Pen Type 184 Conductivity Meter Pocket Type 184 Conductivity Sensor 11 Connecting Wire With 1 Side 4mm Lead & 1 Side Crocodile clip Connecting Wire With 2 Side Crocodile clips 199 Copper Model Kit 38 Copper Wire 198 Cork Borer Set 12 161 Cork Borer Set 6 161 Cork Stopper Assorted PK 160 Cork Stopper Bark 160 Cotton Wool Absorbent 63 COtton Wool Non Absorbent 63 CPR Training Manikin Half-body Basic Economy Crocodile Clip With Plastic Sleeved Red Pk/10 199 Crucible Porcelain 153	Colorimeter 1G-7	190
Colorimeter Sensor Computer Student Table Computer Teacher Table Condenser , Air Coil Conductivity/TDS Portable Meter Kit Conductivity EC /TDS/Salinity Pocket Tester Kit Conductivity Meter Pen Type 184 Conductivity Meter Pocket Type Conductivity Sensor 11 Connecting Wire With 1 Side 4mm Lead & 1 Side Crocodile clip Connecting Wire With 2 Side Crocodile clips 199 Copper Model Kit 38 Copper Wire 198 Cork Borer Set 12 161 Cork Borer Set 6 161 Cork Stopper Assorted PK Cotton Wool Absorbent 63 CPR Training Manikin Half-body Basic Economy Crescent Table Crocodile Clip With Plastic Sleeved Red Pk/10 199 Crucible Porcelain 153	Colorimeter 2.0 Basic	190
Computer Student Table Computer Teacher Table Condenser , Air Coil Condenser , Air Coil Conductivity/TDS Portable Meter Kit Conductivity EC /TDS/Salinity Pocket Tester Kit 188 Conductivity Meter Pen Type 184 Conductivity Meter Pocket Type 184 Conductivity Sensor 11 Connecting Wire With 1 Side 4mm Lead & 1 Side Crocodile clip Connecting Wire With 2 Side Crocodile clips 199 Copper Model Kit 38 Copper Wire 198 Cork Borer Set 12 161 Cork Borer Set 6 161 Cork Stopper Assorted PK 160 Cork Stopper Bark 160 Cotton Wool Absorbent 63 COTON ON Absorbent 63 COTON ON Absorbent 65 Crescent Table Crocodile Clip With Plastic Sleeved Red Pk/10 199 Crucible Porcelain 153	Colorimeter 2.0 Basic Set/4	190
Computer Teacher Table Condenser , Air Coil 45 Conductivity/TDS Portable Meter Kit 188 Conductivity EC /TDS/Salinity Pocket Tester Kit 184 Conductivity Meter Pen Type 184 Conductivity Meter Pocket Type 184 Conductivity Sensor 11 Connecting Wire With 1 Side 4mm Lead & 1 Side Crocodile clip Connecting Wire With 2 Side Crocodile clips 199 Conper Model Kit 38 Copper Wire 198 Cork Borer Set 12 161 Cork Borer Set 6 161 Cork Stopper Assorted PK 160 Cork Stopper Bark 160 Cotton Wool Absorbent 63 COTR Training Manikin Half-body Basic Economy Crescent Table Crocodile Clip With Plastic Sleeved Red Pk/10 199 Crucible Porcelain 153	Colorimeter Sensor	10
Condenser , Air Coil Conductivity/TDS Portable Meter Kit 188 Conductivity EC /TDS/Salinity Pocket Tester Kit 184 Conductivity Meter Pen Type 184 Conductivity Meter Pocket Type 184 Conductivity Sensor 111 Connecting Wire With 1 Side 4mm Lead & 1 Side Crocodile clip Connecting Wire With 2 Side Crocodile clips 199 Copper Model Kit 38 Copper Wire 198 Cork Borer Set 12 161 Cork Borer Set 6 161 Cork Stopper Assorted PK Cork Stopper Bark 160 Cotton Wool Absorbent 63 Cotton Wool Non Absorbent 63 Corescent Table Crocodile Clip Pk/10 Crocodile Clip With Plastic Sleeved Red Pk/10 199 Crucible Porcelain 184 184 185 184 184 184 184 184	Computer Student Table	310
Conductivity/TDS Portable Meter Kit Conductivity EC /TDS/Salinity Pocket Tester Kit 184 Conductivity Meter Pen Type 184 Conductivity Meter Pocket Type 184 Conductivity Meter Pocket Type 184 Conductivity Sensor 11 Connecting Wire With 1 Side 4mm Lead & 1 Side Crocodile clip Clip Connecting Wire With 2 Side Crocodile clips 199 Copper Model Kit 38 Copper Wire 198 Cork Borer Set 12 161 Cork Borer Set 6 161 Cork Stopper Assorted PK 160 Cork Stopper Bark 160 Cotton Wool Absorbent 63 Cotton Wool Non Absorbent 63 CPR Training Manikin Half-body Basic Economy 65 Crescent Table Crocodile Clip Pk/10 199 Crucible Porcelain 153	Computer Teacher Table	310
Conductivity EC /TDS/Salinity Pocket Tester Kit Conductivity Meter Pen Type 184 Conductivity Meter Pocket Type 184 Conductivity Sensor 11 Connecting Wire With 1 Side 4mm Lead & 1 Side Crocodile clip Connecting Wire With 2 Side Crocodile clips 199 Copper Model Kit 38 Copper Wire 198 Cork Borer Set 12 161 Cork Borer Set 6 161 Cork Stopper Assorted PK 160 Cork Stopper Bark 160 Cotton Wool Absorbent 63 COTON Wool Non Absorbent 63 CORS Training Manikin Half-body Basic Economy Crescent Table Crocodile Clip With Plastic Sleeved Red Pk/10 153 Crucible Porcelain	Condenser , Air Coil	45
Conductivity Meter Pen Type Conductivity Meter Pocket Type 184 Conductivity Sensor 11 Connecting Wire With 1 Side 4mm Lead & 1 Side Crocodile clip Connecting Wire With 2 Side Crocodile clips 199 Copper Model Kit 38 Copper Wire 198 Cork Borer Set 12 161 Cork Borer Set 6 161 Cork Stopper Assorted PK 160 Cork Stopper Bark Cotton Wool Absorbent 63 COTR Training Manikin Half-body Basic Economy Crescent Table Crocodile Clip Pk/10 Crocodile Clip With Plastic Sleeved Red Pk/10 199 Crucible Porcelain 11 12 14 15 15 16 17 18 18 18 18 19 19 19 19 19 19	Conductivity/TDS Portable Meter Kit	188
Conductivity Meter Pocket Type Conductivity Sensor Connecting Wire With 1 Side 4mm Lead & 1 Side Crocodile clip Connecting Wire With 2 Side Crocodile clips 199 Copper Model Kit 38 Copper Wire 198 Cork Borer Set 12 161 Cork Borer Sharpener 161 Cork Stopper Assorted PK 160 Cork Stopper Bark 160 Cotton Wool Absorbent 63 COTON Wool Non Absorbent Crescent Table Crocodile Clip Pk/10 Crocodile Clip With Plastic Sleeved Red Pk/10 199 Crucible Porcelain 11 199 199 199 100 199 100 199 100	Conductivity EC /TDS/Salinity Pocket Tester Kit	184
Conductivity Sensor Connecting Wire With 1 Side 4mm Lead & 1 Side Crocodile clip Connecting Wire With 2 Side Crocodile clips Copper Model Kit 38 Copper Wire 198 Cork Borer Set 12 161 Cork Borer Set 6 161 Cork Stopper Assorted PK 160 Cork Stopper Bark 160 Cotton Wool Absorbent 63 COTR Training Manikin Half-body Basic Economy Crescent Table Crocodile Clip Pk/10 Crocodile Clip With Plastic Sleeved Red Pk/10 199 Crucible Porcelain	Conductivity Meter Pen Type	184
Connecting Wire With 1 Side 4mm Lead & 1 Side Crocodile clip Connecting Wire With 2 Side Crocodile clips 199 Copper Model Kit 38 Copper Wire 198 Cork Borer Set 12 161 Cork Borer Set 6 161 Cork Stopper Assorted PK 160 Cork Stopper Bark 160 Cotton Wool Absorbent 63 COTR Training Manikin Half-body Basic Economy Crescent Table Crocodile Clip Pk/10 Crocodile Clip With Plastic Sleeved Red Pk/10 199 Crucible Porcelain	Conductivity Meter Pocket Type	184
clip Connecting Wire With 2 Side Crocodile clips 199 Copper Model Kit 38 Copper Wire 198 Cork Borer Set 12 161 Cork Borer Set 6 161 Cork Borer Sharpener 161 Cork Stopper Assorted PK 160 Cork Stopper Bark 160 Cotton Wool Absorbent 63 Cotton Wool Non Absorbent 63 CPR Training Manikin Half-body Basic Economy 65 Crescent Table 199 Crocodile Clip Pk/10 199 Crucible Porcelain 153	Conductivity Sensor	11
Connecting Wire With 2 Side Crocodile clips Copper Model Kit 38 Copper Wire 198 Cork Borer Set 12 Cork Borer Set 6 161 Cork Borer Sharpener 161 Cork Stopper Assorted PK 160 Cork Stopper Bark 160 Cotton Wool Absorbent 63 Cotton Wool Non Absorbent 63 CPR Training Manikin Half-body Basic Economy Crescent Table Crocodile Clip Pk/10 199 Crucible Porcelain 198 198 198 161 161 161 161 161	Connecting Wire With 1 Side 4mm Lead & 1 Side Crocodile	100
Copper Model Kit Copper Wire 198 Cork Borer Set 12 161 Cork Borer Set 6 161 Cork Borer Sharpener 161 Cork Stopper Assorted PK 160 Cork Stopper Bark 160 Cotton Wool Absorbent 63 Cotton Wool Non Absorbent 63 CPR Training Manikin Half-body Basic Economy Crescent Table 199 Crocodile Clip Pk/10 199 Crucible Porcelain 153	clip	199
Copper Wire 198 Cork Borer Set 12 161 Cork Borer Set 6 161 Cork Borer Sharpener 161 Cork Stopper Assorted PK 160 Cork Stopper Bark 160 Cotton Wool Absorbent 63 Cotton Wool Non Absorbent 63 CPR Training Manikin Half-body Basic Economy 65 Crescent Table 325 Crocodile Clip Pk/10 199 Crocodile Clip With Plastic Sleeved Red Pk/10 199 Crucible Porcelain 153	Connecting Wire With 2 Side Crocodile clips	199
Cork Borer Set 12 161 Cork Borer Set 6 161 Cork Borer Sharpener 161 Cork Stopper Assorted PK 160 Cork Stopper Bark 160 Cotton Wool Absorbent 63 Cotton Wool Non Absorbent 63 CPR Training Manikin Half-body Basic Economy 65 Crescent Table 325 Crocodile Clip Pk/10 199 Crocodile Clip With Plastic Sleeved Red Pk/10 199 Crucible Porcelain 153	Copper Model Kit	38
Cork Borer Set 6 161 Cork Borer Sharpener 161 Cork Stopper Assorted PK 160 Cork Stopper Bark 160 Cotton Wool Absorbent 63 Cotton Wool Non Absorbent 63 CPR Training Manikin Half-body Basic Economy 65 Crescent Table 325 Crocodile Clip Pk/10 199 Crocodile Clip With Plastic Sleeved Red Pk/10 199 Crucible Porcelain 153	Copper Wire	198
Cork Borer Sharpener 161 Cork Stopper Assorted PK 160 Cork Stopper Bark 160 Cotton Wool Absorbent 63 Cotton Wool Non Absorbent 63 CPR Training Manikin Half-body Basic Economy 65 Crescent Table 325 Crocodile Clip Pk/10 199 Crocodile Clip With Plastic Sleeved Red Pk/10 199 Crucible Porcelain 153	Cork Borer Set 12	161
Cork Stopper Assorted PK Cork Stopper Bark 160 Cotton Wool Absorbent Cotton Wool Non Absorbent Cotton Wool Non Absorbent CPR Training Manikin Half-body Basic Economy Crescent Table Crocodile Clip Pk/10 Crocodile Clip With Plastic Sleeved Red Pk/10 Crucible Porcelain 153	Cork Borer Set 6	161
Cork Stopper Bark 160 Cotton Wool Absorbent 63 Cotton Wool Non Absorbent 63 CPR Training Manikin Half-body Basic Economy 65 Crescent Table 325 Crocodile Clip Pk/10 199 Crocodile Clip With Plastic Sleeved Red Pk/10 199 Crucible Porcelain 153	Cork Borer Sharpener	161
Cotton Wool Absorbent 63 Cotton Wool Non Absorbent 63 CPR Training Manikin Half-body Basic Economy 65 Crescent Table 325 Crocodile Clip Pk/10 199 Crocodile Clip With Plastic Sleeved Red Pk/10 199 Crucible Porcelain 153	Cork Stopper Assorted PK	160
Cotton Wool Non Absorbent 63 CPR Training Manikin Half-body Basic Economy 65 Crescent Table 325 Crocodile Clip Pk/10 199 Crocodile Clip With Plastic Sleeved Red Pk/10 199 Crucible Porcelain 153	Cork Stopper Bark	160
CPR Training Manikin Half-body Basic Economy Crescent Table Crocodile Clip Pk/10 Crocodile Clip With Plastic Sleeved Red Pk/10 Crucible Porcelain 153	Cotton Wool Absorbent	63
Crescent Table 325 Crocodile Clip Pk/10 199 Crocodile Clip With Plastic Sleeved Red Pk/10 199 Crucible Porcelain 153	Cotton Wool Non Absorbent	63
Crocodile Clip Pk/10 199 Crocodile Clip With Plastic Sleeved Red Pk/10 199 Crucible Porcelain 153	CPR Training Manikin Half-body Basic Economy	65
Crocodile Clip With Plastic Sleeved Red Pk/10 199 Crucible Porcelain 153	Crescent Table	325
Crucible Porcelain 153	Crocodile Clip Pk/10	199
	Crocodile Clip With Plastic Sleeved Red Pk/10	199
Crucible Porcelain 153	Crucible Porcelain	153
	Crucible Porcelain	153



Crucible Porcelain	153
Crucible Tongs With Bow	158
Crystallizing Dishes	152
Culture Tube Round Bottom	140
Culture Tube Round Bottom	140
Cuvette for Colorimeter BT29i	21
Cuvette holder for Colorimeter BT29i	21
D	
Data-Logger stand	16
De-soldering Pump	197
Deflagrating Spoon With Cap	165
Demo Balance Support	178
Desiccators Vacuum With Stopcock Lid And Plate	148
Dessicators With Lid Plain 150 Mm	148
Determining Molar Enthalpy Using Hess's Law	30
Determining Molar Mass Using The Ideal Gas Equation	30
Determining The Equilibrium Constant (and Temperatures	31
Effect) Withbeers Law	٥.
Dia 10Mm X H - 25 mm PP.	165
Diamond Model Kit	38
Digital 3D Shaker LCD	249
Digital Linear Shaker LCD	247
Digital Linear Shaker LED	247
Digital Rocking Shaker 7" LED	248
Digital Rocking Shaker 9" LCD	248
Digital Rotary Evaporator	295
Digital Rotator LCD	241
Disc Polarimeter	195
Disinfectant Wipes	54
Dispersion Head Selection Guide	254
Display Board Mobile,4 Fold	331
Display Board Mobile, Double Sided White&Tack	331
Dissolved Oxygen Meter	188
Distillation Set Quickfit	44
Double Beam Balance	175
Draining Basket	159
Drop Counter Attachment for photo-gate	13
Drop Neutralization Kit	34
Dropping Pipette With Rubber Teat	142
Dry Bath (Block Heater) Digital LED	233
Drying Cabinets	212
Drying Rack,	160
Ducted Fume Extractor Cabinet 2	236
Ducted Fume Extractor Cabinet	235
Ducted Spray Booth	236
DVD/CD Display Stand Unit	329
E	
E15-30 (round bottom) for ESL58506	272
E50-8 (round bottom) for ESL58506	272
Fcology and weather kit - Standard Kit	169

Economical Rotator	241
Economy Bursen Burner Adjustable	164
Economy Digital Balance 500 x 0.01g	178
Electric Burner	219
Electrochemical Cells Voltaic And Electrolytic	32
Electrode Holder Flexible	188
Electrolysis Cell	44
Electronic Micropipette	289
Electronic Pipette	291
Electronic Titrator, (Electronic Burette) 99.99 - 0.01 ml	280
Electrophoresis System	292
Elements, Compounds & Mixtures I I	41
Elements, Compounds & Mixtures II Kit Refill	41
Elements, Compounds & Mixtures I Kit	41
Elements, Compounds & Mixtures I Kit	41
Emergency Asthma Kit	58
Emergency Burns Kit	57
Emergency Shower Wall Mounted	62
Emergency Shower With Eye Face Shower	62
Emergency Shower Without Eye Face Shower	62
Engineering Rule	196
Eppendorf Tubes 1.5 ml Autoclavable	278
Eppendorf Tubes 2 ml Autoclavable	278
Erlenmeyer Flask with Screw-Cap	143
Erlenmeyer Flask with Screw-Cap	143
ES02P05	268
ES02P2	268
ES05P2	268
ES12-PCR8 for ESL58506	271
ES12-V5	267
ES5-18	268
ES5-18V (cone bottom) for ESL58506	272
ES2-MP for ESL58506	271
ES2-24	267
ES2P17	260
ES2-30 for ESL58506	271
ES05-36	267
ES5P17	260
ES50-6V (cone bottom) for ESL58506	272
ES2-60 for ESL58506	271
ESA02P2	259
ESA04-RCR8	259
ESA05P2	259
ESA2-8P	259
ES Data-logging Software	15
ES Desktop Meter	186
ES Desktop Meter	187
ESL-R03AR Series Abbe Refratometer	195
ES Pocket Meter	182
ES Portable Meter	185



ESS4-PCR8	267
Eureka Constantan Wire	198
Evaporating Dishes Ceramic, 70 ml	152
Expansion adapter socket	45
Eye Emergency Signs	57
Eyewash Bottle	57
Eyewash Pod Station	57
Eye Wash Shower Double Table Mounted	62
Eye Wash Shower Double Wall Mounted	62
Eye Wash Station Cederroth	58
F	
Face Mask For Dust	56
Face Shield	51
Families Of Elements I Kit	41
Features	289
Felt Tipped Pens PK/12	200
Filter Paper	155
Filter Paper	155
Fire Blanket	57
First Aid Arm	64
First Aid Center Complete - BS 8599 Compliant	58
First Aid Kit Class Room	59
First Aid Kit Medium Size	59
First Aid Kit Primary School	58
First Aid Kit Secondary School	58
First Aid Kit Small	59
First Aid Poster For Children	61
Fixed Eyewash Station	57
Fixed Safety Screen	52
Flake Ice Maker	297
Flask Distillation With Side Arm	143
Flask Erlenmeyer Narrow Neck	142
Flask Erlenmeyer Narrow Neck	142
Flask Erlenmeyer Narrow Neck 250ML With Rubber Stopper	142
Flask Erlenmeyer Round Bottom Wide Neck	143
Flask Erlenmeyer Wide Neck	143
Flask Filtration	155
Flask Flat Bottom Narrow Neck	143
Flask Round Bottom Narrow Neck	143
Flask Supports Cork Ring	53
Flask Volumetric, Class B	144
Flask Volumetric Class A	144
Flexible Desk Lamp	197
Flower Table	324
Fluorescent Dye Kit	25
Foam Rubber Matting 60x40 , Bench Mats	53
Folding Safety Screen	52
Fume Cabinet Ductless	305
Fume Cupboard Mobile Eduscience 1000Rs	304
Fume Cupboard Static Filtration	304

Funnel Boro Glass Funnel PP, 15 Funnel Stand 15 G Gas Jar Cover Dia 6 Cm Gas Jar Cylindrical Boro 4. Gas Syringe 4. Gas Tap 2 Way 180 Degree Gas Tap 2 Way 90 Degree Gauze Swab Non Sterile 6.6	2
Funnel PP, Funnel Stand G Gas Jar Cover Dia 6 Cm Gas Jar Cylindrical Boro Gas Syringe Gas Tap 2 Way 180 Degree Gas Tap 2 Way 90 Degree Gauze Swab Non Sterile 66	53 58 2 2
Funnel Stand 15 G G Gas Jar Cover Dia 6 Cm 4. Gas Jar Cylindrical Boro 4. Gas Syringe 4. Gas Tap 2 Way 180 Degree 23 Gas Tap 2 Way 90 Degree 23 Gauze Swab Non Sterile 66	58 -2 -2 -2
G Gas Jar Cover Dia 6 Cm A: Gas Jar Cylindrical Boro A: Gas Syringe A: Gas Tap 2 Way 180 Degree Cas Tap 2 Way 90 Degree Cauze Swab Non Sterile Cas Tap 2 Way 90 Degree Cauze Swab Non Sterile	2 2 2
Gas Jar Cover Dia 6 Cm Gas Jar Cylindrical Boro Gas Syringe Gas Tap 2 Way 180 Degree Gas Tap 2 Way 90 Degree Gauze Swab Non Sterile 4. 6.	2
Gas Jar Cylindrical Boro Gas Syringe Gas Tap 2 Way 180 Degree Gas Tap 2 Way 90 Degree Gauze Swab Non Sterile 66	2
Gas Syringe 4. Gas Tap 2 Way 180 Degree 23 Gas Tap 2 Way 90 Degree 23 Gauze Swab Non Sterile 6.	2
Gas Tap 2 Way 180 Degree 23 Gas Tap 2 Way 90 Degree 23 Gauze Swab Non Sterile 66	
Gas Tap 2 Way 90 Degree 23 Gauze Swab Non Sterile 6	37
Gauze Swab Non Sterile 6.	
	56
Ge Filtration: Plant Pigments 3.	
	15
Glass Stirring Rod 15	54
Glass Tube Cutter 16	52
Gloves, Leather Pair 5.	3
Gloves Disposable Blue Powder Free - Pk/ 100 . 5	4
	4
Gloves Disposable Clear Powder Free - Pk/ 100 . 5	4
Gloves Disposable White Powdered - Pk/ 100 . 5	5
Gloves General Purpose - Pair 5.	5
Gloves Neoprene 5.	5
Gloves Polythene 5.	5
Graphite Model Kit 3	8
н	
Half-body CPR 6	4
Half-body CPR Training Manikin with Obstruction 6.	5
Half Arc Table 32	24
Half Round Table 32	24
Handheld Homogenizer 25	52
Hand Protectors - Silicon 5.	3
Hand Protectors - Silicon Superior 5.	3
Hazard tape: 6	3
Heat Absorption Radiation Comparator 2	
Heat Absorption Radiation Comparator 2 Heating Coil 2	7
Heating Coil 2	7
Heating Coil 2 Heating Mantle Controlled 23	7
Heating Coil 2 Heating Mantle Controlled 23 Heat Resistance Gloves Pair 5	7 :1 32
Heating Coil 2 Heating Mantle Controlled 23 Heat Resistance Gloves Pair 5 Height & Weight Scale Advance 17	7 1 32 3
Heating Coil 2 Heating Mantle Controlled 23 Heat Resistance Gloves Pair 5 Height & Weight Scale Advance 17 Height & Weight Scale Basic 17	7 1 32 3 75
Heating Coil 2 Heating Mantle Controlled 23 Heat Resistance Gloves Pair 5 Height & Weight Scale Advance 17 Height & Weight Scale Basic 17 Hematocrit Centrifuge ESL-1224 26	7 1 32 3 75
Heating Coil 2 Heating Mantle Controlled 23 Heat Resistance Gloves Pair 5 Height & Weight Scale Advance 17 Height & Weight Scale Basic 17 Hematocrit Centrifuge ESL-1224 26 Hematocrit Centrifuge ESL-1424 26	7 1 32 3 75 75
Heating Coil 2 Heating Mantle Controlled 23 Heat Resistance Gloves Pair 5 Height & Weight Scale Advance 17 Height & Weight Scale Basic 17 Hematocrit Centrifuge ESL-1224 26 Hematocrit Centrifuge ESL-1424 26	7 11 32 3 75 75 63 63
Heating Coil 2 Heating Mantle Controlled 23 Heat Resistance Gloves Pair 5 Height & Weight Scale Advance 17 Height & Weight Scale Basic 17 Hematocrit Centrifuge ESL-1224 26 Hematocrit Centrifuge ESL-1424 26 High-speed Refrigerated Micro Centrifuge 27 High Efficiency Filter Cabinet 23	7 11 32 3 75 75 63 63
Heating Coil 2 Heating Mantle Controlled 23 Heat Resistance Gloves Pair 5 Height & Weight Scale Advance 17 Height & Weight Scale Basic 17 Hematocrit Centrifuge ESL-1224 26 Hematocrit Centrifuge ESL-1424 26 High-speed Refrigerated Micro Centrifuge 27 High Efficiency Filter Cabinet 23 High Shear Homogenizer 25	7 11 32 3 3 75 75 63 63 75
Heating Coil 2 Heating Mantle Controlled 23 Heat Resistance Gloves Pair 5 Height & Weight Scale Advance 17 Height & Weight Scale Basic 17 Hematocrit Centrifuge ESL-1224 26 Hematocrit Centrifuge ESL-1424 26 High-speed Refrigerated Micro Centrifuge 27 High Efficiency Filter Cabinet 23 High Shear Homogenizer 25	7 1 1 32 3 3 75 75 63 63 75 53 64
Heating Coil 2 Heating Mantle Controlled 23 Heat Resistance Gloves Pair 5 Height & Weight Scale Advance 17 Height & Weight Scale Basic 17 Hematocrit Centrifuge ESL-1224 26 Hematocrit Centrifuge ESL-1424 26 High-speed Refrigerated Micro Centrifuge 27 High Efficiency Filter Cabinet 23 High Speed Micro Centrifuge 26 High Speed Micro Centrifuge 26 High Speed Micro Centrifuge 26 High Speed Mini Centrifuge 26	7 1 1 32 3 3 75 75 63 63 75 53 64
Heating Coil 2 Heating Mantle Controlled 23 Heat Resistance Gloves Pair 5 Height & Weight Scale Advance 17 Height & Weight Scale Basic 17 Hematocrit Centrifuge ESL-1224 26 Hematocrit Centrifuge ESL-1424 26 High-speed Refrigerated Micro Centrifuge 27 High Efficiency Filter Cabinet 23 High Speed Micro Centrifuge 26 High Speed Micro Centrifuge 26 High Speed Micro Centrifuge 26 High Speed Refrigerated Centrifuge 26 High Speed Refrigerated Centrifuge 27	7 11 332 33 75 75 53 53 75 53 54 64



Hollow stopper	45
Hood Mounted Filtration Cabinet	237
Horseshoe Table	324
Hot Plat ADV	220
Hot Plat ADV LCD	219
Hot Plate & Magnetic Stirrer	225
Hot Plate Basic I (Electric Burner) 500 W	219
Hot Plate Magnetic Stirrer Basic	223
Hotplate Magnetic Stirrer Digital LED 280C	223
Hot Plate Magnetic Stirrer Mini	222
Hot Plate Magnetic Stirrer Pro	223
Hot Plat Magnetic Stirrer LCD ADV	225
Hot Plat Magnetic Stirrer LED ADV	225
Hot Plat Magnetic Stirrer Multi	229
Hot Plat Magnetic Stirrer PRO Round	223
Hot Plat Pro	220
Hygrometer Hair Type	168
Hygrometer Masons	168
Hygrometer Thermo Hygrometer	168
I	
Ice Melting Kit	27
ICE Model Kit	38
Identifying Weak Acids By PKA	31
Incubator Compact	214
Incubators General Purpose	214
Inorganic Organic Student Kit	39
Inorganic Organic Teacher Kit	40
Ionic Interaction Kit	25
Ionic Interaction Refill	25
IRON Model Kit	39
К	
Kinetic Theory Model	43
L	
Lab Coat Blue Poly-cotton Men Small	56
Lab Coat White Poly-cotton Men	56
Laboratory Jack	160
Lab Stools Standard ES 1	310
Lab Stool Stacking PP	310
Lab Student Bench Octagonal Shape	309
Lab Student Bench Octagonal Shape With Tap & Sink	309
Lab Teacher Bench	309
Lab Thermometer	167
Lab Thermometer	167
Lab Thermometer	168
Lab Thermometer	168
Lab Thermometer Classroom Wall Kit With Chart	168
Lab Thermometer Investigation Science Kit	168
Lab Thermometer Kit For Classroom	168
Lab Trolley Three Tier Apparatus	309
Lab Wall Bench	309

Laminar Flow Clean Bench	298
Lamp Bulb E 1.5 ,10v/0.2a (10pcs/Pack)	197
Lamp Bulb E 10 ,10V (10 PCS/Pack)	197
Lamp Bulb E 12 ,10V (10 PCS/Pack)	197
Lamp Bulb E 2.5 ,10v/0.5a (10 Pcs/Pack)	197
Lamp Bulb E 10,5V (10 PCS/Pack)	197
Lamp Bulbs, Lens Ended	197
Lamp Bulbs, Round	197
Lamp Bulbs, Round	197
Lamp Holder Mounted SBC	197
Laptop Table, Oval Type	326
LCD Digital Linear Shaker	246
LCD Digital Orbital Shaker	243
LCD Digital Overhead Stirrer	256
LCD Digital Tube Roller	242
Lead Acid Accumulator	200
Le Chateliers Principle	31
LED Overhead Stirrer	257
Lens Cleaner Spray	51
Lens cleaning tissue paper	54
Library Search Station HH	330
Library Search Station LH	330
Library Search Station MH	330
Liebig condenser with glass connector	45
Liebig condenser with screw thread	45
Light Sensor *	11
Light Sensor *	11
Light Sensor with three ranges	11
Litmus Paper Red	166
·	100
Litmus Paper Red Pk/100 strips	155
Long Stem	155
Low-speed Centrifuge	260
M Manus asissus Mandal Kita	20
Magnesium Model Kit	39
Magnetic Retriever	165
Magnetic Stirrer Advance	221
Magnetic Stirrer Basic	221
Magnetic Stirrer Mini	221
Magnetic Stirrer Pro LCD	221
Magnetic Stirrer with Heating Mantle 2 in 1	227
Mask Paper Play	56
Mask With Valve Pk/10	56
Material Storage Cabinet Wooden	329
Matter And Its Changes Kit 1	22
Matter And Its Changes Kit 2	22
Matter And Its Changes Kit 3	22
Max-Min Thermometer Electronic	171
Max Min Digital Heavy Duty , Green	170
Max Min Thermo&Hygrometer Electronic Jumbo	170
Max Min Thermometer cream Quick-set	



Max Min Thermometer Dial (Bimetallic)	170
Max Min Thermometer Digital Classic Design	170
Max Min Thermometer Digital Heavy Duty , White	170
Max Min Thermometer Digital Mini Lidded	170
Max Min Thermometer Digital Waterproof Boxed Grey	170
Max Min Thermometer Heavy Duty , Green	171
Max Min Thermometer Lidded Green Push Button	171
Max Min Thermometer White Magnet Re-Set	171
Max Min Thermometer White Quick-Set	171
Measuring Cylinder, , Class B, Hex Base	145
Measuring Cylinder ,Class A, Round Base	144
Measuring Cylinder, Class B, Hex Base	144
Measuring Cylinder , Class B, Hex Base	144
Measuring Cylinder, Class B , Plastic Base.	145
Measuring Cylinder PMP, Class A	145
Measuring Cylinder PMP, Class B	145
Measuring Cylinder PP Class B	145
Measuring Cylinders- PP	145
Measuring Scoop	165
Measuring Tape	196
Melting Point Apparatus Analogue	179
Melting Point Apparatus Digital	179
Melting Point Tube (Pk/100)	179
Mercury Collector	61
Micro-Pipette Fixed Volume Advance	283
Micro-Pipette Fixed Volume Basic	283
Micro-Pipette Multi Channel Variable Range Advance	288
Micro-Pipette Multi Channel Variable Range Basic	287
Micro-pipette Variable Range Basic	284
Micro-Pipette Variable Volume Advance	285
Micro-Pipette Variable Volume Pro	286
Micro Centrifuge	259
Micro Centrifuge	292
Micrometer 25 -0 mm	196
Micrometer 25-0 Mm With Lock	196
Micrometer Digital	196
Mini Motor DC	197
Mini Pipette	281
Mini Tablet Charging Trolley - 10-Bay or 12-Bay	311
Mini Vortex Mixer	240
Mixed Glassware - Class Pack	148
Mixing Cylinder , Boro 3.3 , With Plastic Stopper	144
Mobile Food Technology Bench	303
Mobile Science Bench	302
Molarity I Kit	25
Molarity I Refill	25
Molecular Model, Fullerene C-60	36
Molecular Model, Graphite	36
Molecular Model	36
Molecular Model Diamond	36

Molecular Model Orbit System, Basic	37
Mortar & Pestle	152
Multi-Functional	290
Multi-Purpose Low-speed Centrifuge	269
Multi-Purpose low Speed Centrifuge	273
Multi-Purpose Refrigerated Centrifuge	276
Multifunctional Model	245
Multiple adapter 2 neck one joint at 45 degree socket	45
Multiple Casualty Simulation Kit	66
Multi Stirring Palte 10 Analouge	222
N	
Neoprene Bunsen Burner Hose,	164
Neutral Pk/100 Strips	
Neutral Pk/200 Strips	166
New Born CPR Training Manikin	64
Noise Reduction Headphones Adult & Children	53
Nuffield Raised Centre 14 cm	165
0	
Open Shelve Cabinet Wooded With 25 Compt.	326
Open Shelve Cabinet Wooded With 8 Totes ,	327
Open Shelve Cabinet Wooden With 12 Totes ,	327
Open Shelving Metal, Depth 1	328
Open Shelving Metal, Depth 2	328
Open Shelving Unit, 3 Shelves H 1	327
Open Shelving Unit, 5 Shelves H 2	327
Organic Chemistry Glassware Kit 16Pcs	44
Organic Chemistry Glassware Kit 9Pcs	44
Organic Quick fit Set - 27BU/M - 23/14 Joints	44
Organic Student Kit	39
Organic Teacher Kit	40
ORP Sensor	11
Outdoor Chair, Adult	331
Outdoor Table, Adult	331
Oven General Purpose	213
Ovens Drying Moisture Extraction	212
Ovens Incubators Dual Purpose	212
P	212
Paddle Blender	240
Paper Towel	54
Parafilm	166
Particle Filter Ifa2p (Pack Of 6)	236
PCR Thermal Cycler Basic	292
PCR Thermal Cycler Basic	292
PCR Thermal Cycler Basic System Complete Package	292
Pencil	200
Petri Dish, Boro 3.3 Glass	152
Petri Dish	-
	152
Pharmacy & Lab Pofrigorator (L35/3C)	188
Pharmacy & Lab Refrigerator (+25/2C)	68
Pharmacy & Lab Refrigerator (+25/2C) Glass Door	69



Pharmacy & Lab Refrigerator	296
Pharmacy & Lab Refrigerator	296
PH electrode	16
PH Meter Desk Top	188
PH Meter Pen Type	183
PH Meter Pocket Type	183
PH Meter Potable Hand-held	183
Photo-gate	13
Photometer Portable Cell Holder Cover	191
Photometer Portable Mini	191
Photometer Portable Round Cell Holder	191
PH sensor	13
Physical And Chemical Properties Kit	23
Physical Properties Kit	23
Pip-clay Triangle	165
Pipette Aid	142
Pipette Controller	281
Pipette Filler Electronic ADV	282
Pipette Filler Electronic Basic	282
Pipette Graduated (Serological), Class B	141
Pipette Graduated, Class AS Capacity 0.1 ML	142
Pipette Pump	281
Pipettes Stand Linear	290
Pipettes Stand Round	290
Pipette Stand Rotary Vertical	142
Pipette stand rotary vertical pp, 94 places	142
Pipette Tips With Rack	278
Pipette Transfer	142
Pipette Transfer	142
Pipette Volumetric	141
Pipette Volumetric Class AS	141
Pipette Washer PP	142
Plastic Container	151
Plate For Simple Cell Carbon	43
Plate For Simple Cell Copper	43
Plate For Simple Cell Lead	43
Plate For Simple Cell Zinc	43
Preparing Buffer Solutions And Determining Their Properties	31
Pressure Sensor	13
Primary Science Bench	303
Product Features	172
Protective Screen	52
Pycnometer To Gay Lussac, Calibrated, Class A	147
Q	
Quick-fit Air Leak Tube Gas Inlet Tube	46
Quick-fit Condenser Liebig	45
Quick-fit Condenser Liebig With Screw-thread	45
Quick-fit Cone- Screw-thread Adaptor	47
Quick-fit Dropping Funnel, Open	47

Quick-fit Dropping Funnel Stem With Cone	47
Quick-fit Expansion Adaptor	45
Quick-fit Flask Conical	46
Quick-fit Flask Pear Shaped	46
Quick-fit Flask Pear Shaped With Tow Necks	46
Quick-fit Flask Round Bottom, Short Neck	47
Quick-fit Joint Clips Conical Joints	45
Quick-fit Multiple Adapter With 2 Necks	45
Quick-fit Receiver Adaptor	45
Quick-fit Receiver Adaptor	46
Quick-fit Receiver With Vented Bend	46
Quick-fit Recovery Bend Sloping Adaptor	46
Quick-fit Reduction Adaptors	45
Quick-fit Reduction Adaptors	45
Quick-fit Separating Funnel Conical Squibb Shape	46
Quick-fit Still Head	46
Quick-fit Thermometer Pocket	46
R	,
Rack of 96 Pipette Tips 200-0 μl	292
Rain Gauge Plastic	169
Reaction Rate And Order	30
Reaction Rate Factors Kit	26
Receiver adapter bend with vent socket	46
Receiver delivery adapter long stem socket	46
Receiver delivery adapter short stem socket	45
Recovery bend sloping cone size to fit flask	46
Rectangular Table	324
Reduction adapter socket	45
Refrigerated Rack for PCR	292
Resuscitation Poster	63
Retort Ring With Boss-head	156
Ribbed Rubber Mat	309
Rocking Shaker Platform Fixed	244
Rocking Shaker Platform LED	244
Rotor	277
Rotor Features	266
Rotors and Adapters	267
Rotors and Adapters	268
Rubber Gloves For Chemical Use	54
S	
Safety Cabinet Acid And Alkali Floor	306
Safety Cabinet Drugs and Poisons	307
Safety Cabinet Hazardous, Floor	307
Safety Cabinet Radioactive Storage	307
Safety Goggle ES07	51
Safety Goggle ES07	51
Safety Goggle Sporty ES01	51
Safety Goggles Soft Vinyl Direct Vent	50
Safety Goggles Soft Vinyl Direct Vent	50
Safety Goggles Soft Vinyl Splash PPE - Youth Size	50

Tel: +44 (0)203 8685740



Safety Socket For Banana Plugs	199
Safety Spectacle ES130	50
Safety Spectacle ES660	50
Safety Spectacle ES661	50
Safety Spectacle ES802	50
Safety Spectacle ES9008	51
Safety Spectacle ESX6	51
Safety Spectacle Hanger	51
Salinity Sensor	12
Salt Bridge	43
Sandpaper Pack of 10 sheets	200
School First Aid Room	60
Science Cart	302
SE100-4	270
Separating Funnel	152
Separating Funnel pear Shape PTEE	47
Separating Substances-by Adsorption Chromatography	29
Shaking Incubator	216
Shaking Incubator Model :	216
Shapes Of Molecules Electron Repulsion Theory	40
Sharps Containers	57
Simple Chromatography Kit	33
Simple Gas Preparation Kit	43
Slotted Masses And Hanger 12 pc 200 GR BRASS	178
Slotted Masses And Hanger	178
Smart Charging Cart WB-CC-H	322
Smart Charging Trolley	320
Smart materials handling kit	200
Smoke Cell - Whitley Bay	27
Sodium Chloride Model Kit	40
Soil Thermometer	169
Soldering Iron	197
Soldering Iron Stand	197
Solids Materials Kit- In Gratnell Storage Tray	27
Spare Carbon Electrodes In Rubber Stoppers	42
Spare Platinum Electrodes In Rubber Stoppers	42
Spatula Chattaway	165
Spatula Spoon PP	165
Spatula With Spoon	164
Spectrophotometer	192
Spectrophotometer Double Beam UV VIS	191
Spectrophotometer UV VIS Smart	190
Spectrophotometer Vis	191
Spectrophotometric analysis Of Copper: Beers Law	28
	_
Spherometer Superior	196
Spirit Lamp	164
Spirit Lamp Glass	164
Spray Booth	237
Spray Bottle	149
Spring Balance	176

Spring Balance	176
Spring Balance	176
Spring Balance	176
Stainless Steel Gabled Lid	210
Standard top (Default)	238
Stand Base A-Shaped	156
Stand Road	156
Stand Set Base & Road , Steel Base	156
Stand Set Base And Road , Steel Base	156
Statistics: Precision and Accuracy	28
Statistics: Precision and Accuracy With Glass Ware	28
Steel Rod	156
Sterilizer Hot Air	218
Still head plain socket 23/14 cone size to fit flask	46
Stirring Bar	165
Stirring Rod PP	165
Stoichiometry: Mole Ratio Of An Unknown	29
Stoichiometry: Reactions With Copper Compounds	29
Stoichiometry Kit	34
Stoichiometry Refill	34
Stool stacking PP 685mm black	310
Stop Clock	180
Stopper Rubber	161
Stopper Rubber One Hole, Pk Of 50 Pcs	161
Stopper Rubber Silicon	162
Stopper Rubber Tow Holes, Pk Of 50 Pcs	161
Stopwatch Analogue	181
Stopwatch Budget	180
Storage Cabinet Wooden With Doors 4 Shelves	329
Storage Cabinet Wooden With Doors 5 Shelves	329
Student Art , Science Stool	326
Student Spectrophotometer USB and Bluetooth	190
Student Spectrophotometer USB and Bluetooth kit & Optical Fiber	190
Student Table	325
Student Table Free-form Kg	325
Surgical Face Mask Ear Loop	56
Suspension Clamps	158
Switch Module	21
Sync & Charging Trolley	312
Synthesis and Gravimetric Analysis Of Cobalt Oxalate	28
Hydrate	-
T	244
Tablet Charging Trolley	316
Table Top Autoslave	318
Table Top Autoclave	218
Teacher Table	325
Temperature Sensor *	12
Temperature Sensor	12
Temperature Strip	166
Test Tube	140



Test Tube	140
Test Tube Half Rack	159
Test Tube Holder-Wire Pattern	159
TEST Tube Holder With Wooden Handel	159
Test Tube Holder Wooden	159
Test Tube Rack	159
Test Tube Rack	159
Test Tube Rack Plastic	159
Test Tube Rack Stainless Steel 12 X 32mm	210
Test Tube Rack Stainless Steel 18 X 19mm	210
Test Tube Rack Wooden,	159
Test tube stand (wire pattern) - 13mm x 90 Tubes	159
Test Tube Stand (Wire Pattern)	159
Test Tube Stand Z Pattern - 200 X 125 X 75mm	158
Test Tube Without Rim	140
Thermal Cycler Regression	293
Thermal Cycler Regression Advance	293
Thermal Cycler Standard	293
Thermocouple *	12
Thermometer - Digital Hand Held with Probe	169
Thermometer Dial	168
Thermometer Digital	169
Thermometer Digital Basic with probe -50 to +150°C/°F	169
Thermometer Digital Oral	174
Thermometer Digital Probe With Timer	174
Thermometer Digital Water resistant with Probe -40 to +200°C/°F	169
Thermometer Infrared Body Tempreture	
	173
Thermometer Infrared Compact Hand Held	173 172
Thermometer Infrared Compact Hand Held Thermometer Infrared Dual Laser	
·	172
Thermometer Infrared Dual Laser	172 172
Thermometer Infrared Dual Laser Thermometer Infrared Ear Thermometer	172 172 174
Thermometer Infrared Dual Laser Thermometer Infrared Ear Thermometer Thermometer Infrared Forehead	172 172 174 173
Thermometer Infrared Dual Laser Thermometer Infrared Ear Thermometer Thermometer Infrared Forehead Thermometer Infrared Hand Held	172 172 174 173 172
Thermometer Infrared Dual Laser Thermometer Infrared Ear Thermometer Thermometer Infrared Forehead Thermometer Infrared Hand Held Thermometer Stand	172 172 174 173 172 158
Thermometer Infrared Dual Laser Thermometer Infrared Ear Thermometer Thermometer Infrared Forehead Thermometer Infrared Hand Held Thermometer Stand Thistle Funnel	172 172 174 173 172 158 152
Thermometer Infrared Dual Laser Thermometer Infrared Ear Thermometer Thermometer Infrared Forehead Thermometer Infrared Hand Held Thermometer Stand Thistle Funnel Tiles Porcelain With 12 Cavities	172 172 174 173 172 158 152
Thermometer Infrared Dual Laser Thermometer Infrared Ear Thermometer Thermometer Infrared Forehead Thermometer Infrared Hand Held Thermometer Stand Thistle Funnel Tiles Porcelain With 12 Cavities Timer , Countdown Digital Large	172 172 174 173 172 158 152 154
Thermometer Infrared Dual Laser Thermometer Infrared Ear Thermometer Thermometer Infrared Forehead Thermometer Infrared Hand Held Thermometer Stand Thistle Funnel Tiles Porcelain With 12 Cavities Timer , Countdown Digital Large Timer , Countdown Digital Mini	172 172 174 173 172 158 152 154 181
Thermometer Infrared Dual Laser Thermometer Infrared Ear Thermometer Thermometer Infrared Forehead Thermometer Infrared Hand Held Thermometer Stand Thistle Funnel Tiles Porcelain With 12 Cavities Timer , Countdown Digital Large Timer , Countdown Digital Mini Timer , Digital Kitchen Timer And Clock	172 172 174 173 172 158 152 154 181 181
Thermometer Infrared Dual Laser Thermometer Infrared Ear Thermometer Thermometer Infrared Forehead Thermometer Infrared Hand Held Thermometer Stand Thistle Funnel Tiles Porcelain With 12 Cavities Timer , Countdown Digital Large Timer , Countdown Digital Mini Timer , Digital Kitchen Timer And Clock Timer , Dual Timer And Clock	172 172 174 173 172 158 152 154 181 181 181
Thermometer Infrared Dual Laser Thermometer Infrared Ear Thermometer Thermometer Infrared Forehead Thermometer Infrared Hand Held Thermometer Stand Thistle Funnel Tiles Porcelain With 12 Cavities Timer , Countdown Digital Large Timer , Countdown Digital Mini Timer , Digital Kitchen Timer And Clock Timer , Dual Timer And Clock Timer , Four Way Timer And Clock	172 172 174 173 172 158 152 154 181 181 181
Thermometer Infrared Dual Laser Thermometer Infrared Ear Thermometer Thermometer Infrared Forehead Thermometer Infrared Hand Held Thermometer Stand Thistle Funnel Tiles Porcelain With 12 Cavities Timer , Countdown Digital Large Timer , Countdown Digital Mini Timer , Digital Kitchen Timer And Clock Timer , Dual Timer And Clock Timer , Four Way Timer And Clock Timer Bench Top	172 172 174 173 172 158 152 154 181 181 180 180
Thermometer Infrared Dual Laser Thermometer Infrared Ear Thermometer Thermometer Infrared Forehead Thermometer Infrared Hand Held Thermometer Stand Thistle Funnel Tiles Porcelain With 12 Cavities Timer , Countdown Digital Large Timer , Countdown Digital Mini Timer , Digital Kitchen Timer And Clock Timer , Dual Timer And Clock Timer , Four Way Timer And Clock Timer Bench Top Timer Slimline	172 172 174 173 172 158 152 154 181 181 180 180
Thermometer Infrared Dual Laser Thermometer Infrared Ear Thermometer Thermometer Infrared Forehead Thermometer Infrared Hand Held Thermometer Stand Thistle Funnel Tiles Porcelain With 12 Cavities Timer , Countdown Digital Large Timer , Countdown Digital Mini Timer , Digital Kitchen Timer And Clock Timer , Dual Timer And Clock Timer , Four Way Timer And Clock Timer Bench Top Timer Slimline Timer Triple Timer And Clock	172 172 174 173 172 158 152 154 181 181 180 180 180 181
Thermometer Infrared Dual Laser Thermometer Infrared Ear Thermometer Thermometer Infrared Forehead Thermometer Infrared Hand Held Thermometer Stand Thistle Funnel Tiles Porcelain With 12 Cavities Timer , Countdown Digital Large Timer , Countdown Digital Mini Timer , Digital Kitchen Timer And Clock Timer , Dual Timer And Clock Timer , Four Way Timer And Clock Timer Slimline Timer Triple Timer And Clock Titrator - Step - Motor Burette	172 174 173 172 158 152 154 181 181 180 180 180 181 181
Thermometer Infrared Dual Laser Thermometer Infrared Ear Thermometer Thermometer Infrared Forehead Thermometer Infrared Hand Held Thermometer Stand Thistle Funnel Tiles Porcelain With 12 Cavities Timer , Countdown Digital Large Timer , Countdown Digital Mini Timer , Digital Kitchen Timer And Clock Timer , Dual Timer And Clock Timer , Four Way Timer And Clock Timer Bench Top Timer Slimline Timer Triple Timer And Clock Titrator - Step - Motor Burette Tong-Beaker, With Rubber Sleeves Cover	172 172 174 173 172 158 152 154 181 181 180 180 180 181 181 21
Thermometer Infrared Dual Laser Thermometer Infrared Ear Thermometer Thermometer Infrared Forehead Thermometer Infrared Hand Held Thermometer Stand Thistle Funnel Tiles Porcelain With 12 Cavities Timer , Countdown Digital Large Timer , Countdown Digital Mini Timer , Digital Kitchen Timer And Clock Timer , Dual Timer And Clock Timer , Four Way Timer And Clock Timer Bench Top Timer Slimline Timer Triple Timer And Clock Titrator - Step - Motor Burette Tong-Beaker, With Rubber Sleeves Cover	172 172 174 173 172 158 152 154 181 181 180 180 180 181 181 21 158

Trauma Moulage Kit	66
Tripod Stand	160
Trolley With Gratnells Tray	308
Trough Pneumatic, Polypropylene, Dia 18cm, Height 6cm	43
Trough Pneumatic, Soda Glass	43
Trough Pneumatic, Soda Glass	43
Trough Pneumatic, Soda Glass	43
Trowel	165
Tube Combustion, Borosilicate Glass	165
Tube Combustion	165
TUBE DELIVERY, SET OF 4	153
Tube Delivery, Set Of 6	153
Tube Roller	242
Tubing Clip	162
Tubing Connector	163
Tubing Connector U Shape Glass	163
Tubing Connector U Shape Plastic	163
Tubing Glass	162
Tubing Rubber	163
Tubing Silicon	163
Turbidity sensor	12
U	
Ultrasonic Bath	210
Ultraviolet Sterilization Goggle Cabinet - 30-Goggle Model	52
Uncapping block	270
Universal Bottle With Screw Cap	149
Universal Indicator Paper PH 11-1	166
Universal Indicator Paper PH 14-1	166
USB Barometer Sensor	16
USB Light Sensor	15
USB Oxygen Sensor	15
USB PH Sensor	15
USB Temperature Sensor	16
USB Turbidity Sensor	15
V	
Vacuum Oven Models	213
Vacuum Pump Electric	279
Vacuum Pump Electric Lab Use	279
Vacuum Pump Hand Operated	279
Vernier Calliper - Whirl, Plastic	196
Vernier Calliper - Whirl, Steel	196
Vernier Calliper Aluminium	196
Vernier Calliper Digital	196
Vibrating Atom Kit	39
Viscometer Ostwald	163
Visking Tubing	163
Vortex Mixer Adjustable Speed	238
Vortex Mixer Fixed Speed	238
W	
Wall Room Thermometer Plastic	169



Wall Thermometer 169 Wash Bottle 151 Wash Bottle S00MI 151 Wash Bottle Integral Side Spout 151 Wash Bottle WM LDPE 151 Washing up Bowl 151 Watch Glass 153 Water Bath 100 °C - 16 Tubes 201 Water Bath Digital Triple-bath 209 Water Bath Thermostatic 205 Water Bath Thermostatic 2 Ltr Shallow, Comp. W. Sasteel Perforated False Base 207 Water Bath Thermostatic Digital Oil Heating Circulator 206 Water Bath Thermostatic Digital Oil Heating Circulator 206 Water Bath Thermostatic Unstirred Analogue 204 Water Bath Thermostatic Unstirred Analogue 204 Water Bath Ultrasonic, Thermostatic Heated And Timed Jultrasonic -2300 231 Water Bath Ultrasonic, Thermostatic Ploated Distillation 235 Water Still 4 Ltr /Hour Borosil Automatic Double Distillation 235 Water Still 4 Ltr /Hour Borosil Basic Plus 234 Water Still 4 Ltr /Hour Borosil Basic Plus 234 Water Still 4 Ltr /Hour Borosil Basic Plus 234 Water Still 4 Ltr /Hou		
Wash Bottle 500MI 151 Wash Bottle Integral Side Spout 151 Wash Bottle WM LDPE 151 Wash Bottle WM LDPE 151 Washing up Bowl 151 Watch Glass 153 Water Bath 100 °C - 16 Tubes 201 Water Bath Digital Triple-bath 209 Water bath Irwin school 210 Water Bath Laboratory 20L Digital 201 Water Bath Thermostatic 2 Ltr Shallow, Comp. W. S.steel Perforated False Base 207 Water Bath Thermostatic 2 Ltr Shallow, Comp. W. S.steel Perforated False Base 207 Water Bath Thermostatic Digital 201 Water Bath Thermostatic Unstirred Analogue 204 Water Bath Thermostatic Unstirred Analogue 204 Water Bath Thermostatic Unstirred Digital 203 Water Bath Ultrasonic, Thermostatic Heated And Timed 201 Water Still 4 Ltr /Hour Borosil Automatic Double Distillation 235 Water Still 4 Ltr /Hour Borosil Basic 234 Water Still 4 Ltr /Hour Borosil Basic Plus 234 Water Still 4 Ltr /Hour Borosil Basic Plus 234 Water Still 4 Ltr /Hour Borosil Basic Plus 234 Water Still 4 Ltr /Hour Borosil Silica Heater 235 Water Still 4 Ltr /Hour Matel Element 234 Water Swan Neck Tap Hot 237 Weight Booked Masses 179 Weight Ring 166 Weight Set Hooked Weight 178 Weight Set Primary Weight 178 Weight Sotted Masses And Hanger, 178 Weight Sotted Masses And Hanger, 178 Weight Booked Flat 179 Wire Bodeler, Plastic Handle 165 Whire Board Square Type 330 Wirchester Bottle 2.5 Ltr 147 Wire Gauze With Ceramic Centre 166 Wireless B-Differential Gas Pressure Sensor Range: ~~ 650 4650 hPa Wireless COo'rmeter/Turbidity Sensor 200 Wireless Coo'rmeter/Turbidity Sensor 200	Wall Thermometer	169
Wash Bottle Integral Side Spout Wash Bottle WM LDPE 151 Washing up Bowl 153 Water Bath 100 °C - 16 Tubes Water Bath Digital Triple-bath 209 Water Bath Laboratory 20L Digital Water Bath Thermostatic Water Bath Thermostatic 2 Ltr Shallow, Comp. W. S. steel Perforated False Base Water Bath Thermostatic Digital Oil Heating Circulator Water Bath Thermostatic Unstirred Analogue Water Bath Thermostatic Unstirred Digital Water Bath Thermostatic Unstirred Digital Water Bath Ultrasonic, Thermostatic Heated And Timed "Ultrasonic -230V Water Mixer Swan Neck Tap With Lever 237 Water Still 4 Ltr /Hour Borosil Automatic Double Distillation Water Still 4 Ltr /Hour Borosil Basic Plus Water Still 4 Ltr /Hour Borosil Basic Plus Water Still 4 Ltr /Hour Borosil Basic Pro Water Still 4 Ltr /Hou	Wash Bottle	151
Wash Bottle WM LDPE 151 Washing up Bowl 151 Watch Glass 153 Water Bath 100 °C - 16 Tubes 201 Water Bath Digital Triple-bath 209 Water Bath Invin school 210 Water Bath Thermostatic 205 Water Bath Thermostatic 2 Ltr Shallow, Comp. W. S.steel Perforated False Base 207 Water Bath Thermostatic Digital Oil Heating Circulator 206 Water Bath Thermostatic Digital Oil Heating Circulator 206 Water Bath Thermostatic Unstirred Analogue 204 Water Bath Thermostatic Unstirred Digital 203 Water Bath Ultrasonic, Thermostatic Heated And Timed Jultrasonic -230V 211 Water Still 4 Ltr /Hour Borosil Automatic Double Distillation 237 Water Still 4 Ltr /Hour Borosil Basic Postill 4 Ltr /Hour Borosil Basic Plus 234 Water Still 4 Ltr /Hour Borosil Basic Plus 234 Water Still 4 Ltr /Hour Borosil Basic Pro 234 Water Still 4 Ltr /Hour Metal Element 235 Water Still 4 Ltr /Hour Metal Element 236 Water Swan Neck Tap Hot 237 Water Swan Neck Tap Hot 237	Wash Bottle 500Ml	151
Water Bath Thermostatic Digital Oil Heating Circulator Water Bath Ultrasonic, Thermostatic Heated And Timed Jultrasonic, -230V Water Still 4 Ltr /Hour Borosil Basic Plus Water Still 4 Ltr /Hour Borosil Basic Plus Water Still 4 Ltr /Hour Metal Element Water Swan Neck Tap Hot Water Still 4 Ltr /Hour Borosil Basic Pro Water Still 4 Ltr /Hour Borosil Basic Pro Water Swan Neck Tap Hot Water Swan Neck Tap Hot Water Swan Neck Tap Hot Water Still 4 Ltr /Hour Borosil Basic Pro Water Still 4 Ltr /Hour Borosil	Wash Bottle Integral Side Spout	151
Water Bath 100 °C - 16 Tubes Water Bath 100 °C - 16 Tubes Water Bath Digital Triple-bath Water Bath Laboratory 20L Digital Water Bath Thermostatic Water Bath Thermostatic 2 Ltr Shallow, Comp. W. S.steel Perforated False Base Water Bath Thermostatic Digital Water Bath Thermostatic Digital Oil Heating Circulator Water Bath Thermostatic Digital Oil Heating Circulator Water Bath Thermostatic Unstirred Analogue Water Bath Thermostatic Unstirred Digital Water Bath Thermostatic Unstirred Digital Water Bath Ultrasonic, Thermostatic Heated And Timed "Ultrasonic -230V Water Mixer Swan Neck Tap With Lever Water Still 4 Ltr /Hour Borosil Automatic Double Distillation Water Still 4 Ltr /Hour Borosil Basic Plus Water Still 4 Ltr /Hour Borosil Basic Plus Water Still 4 Ltr /Hour Borosil Basic Pro Water Still 4 Ltr /Hour Metal Element Water Swan Neck Tap Hot Water Stan Neck Tap Hot Weight Bottle Ground Squat Form 50X25mm Hater Still 4 Ltr /Hour Borosil Silica Heater Weight Masses Hexagonal With Lifting Ring 179 Weight Ring Weight Set Primary Weight Weight Set Primary Weight Weight Set Hooked Weight Weight Set Primary Weight Weight Set Primary Weight Weight Set Hooked Flat White Board Square Type Winchester Bottle 2.5 Ltr Wire Gauze With Ceramic Centre Wire Holder, Plastic Handle Wireless B-Differential Gas Pressure Sensor Range: ~ 650 4650 hPa Wireless CO2 Gas Sensor Wireless CO2 Gas Sensor	Wash Bottle WM LDPE	151
Water Bath 100 °C - 16 Tubes Water Bath Digital Triple-bath Water Bath Digital Triple-bath Water Bath Laboratory 20L Digital Water Bath Laboratory 20L Digital Water Bath Thermostatic Water Bath Thermostatic 2 Ltr Shallow, Comp. W. S.steel Perforated False Base Water Bath Thermostatic Digital Water Bath Thermostatic Digital Oil Heating Circulator Water Bath Thermostatic Digital Oil Heating Circulator Water Bath Thermostatic Unstirred Analogue Water Bath Thermostatic Unstirred Digital Water Bath Ultrasonic, Thermostatic Heated And Timed Jultrasonic -230V Water Mixer Swan Neck Tap With Lever Water Still 4 Ltr /Hour Borosil Automatic Double Distillation Water Still 4 Ltr /Hour Borosil Automatic Single Distillation Water Still 4 Ltr /Hour Borosil Basic Water Still 4 Ltr /Hour Borosil Basic Plus Water Still 4 Ltr /Hour Borosil Basic Pro Water Still 4 Ltr /Hour Borosil Silica Heater Water Still 4 Ltr /Hour Borosil Silica Heater Water Still 4 Ltr /Hour Metal Element Water Swan Neck Tap Cold With Lever Water Swan Neck Tap Hot Water Swan Neck Tap Hot Water Swan Neck Tap Hot Water Still 4 Ltr /Hour Metal Element Water Swan Neck Tap Hot Water Still 4 Ltr /Hour Metal Element Water Swan Neck Tap Hot Water Still 4 Ltr /Hour Metal Element Water Swan Neck Tap Hot Water Still 4 Ltr /Hour Metal Element 179 Weight Hooked Masses 179 Weight Ring Weight Ring Weight Set Hooked Weight 178 Weight Set Hooked Flat Weight Set Hooked Flat Weight Set Primary Weight Weight Set Hooked Flat Weight Set Primary Weight Weight Set Primary Weight Weight Set Flooked Flat Wire Gauze With Ceramic Centre 164 Wire Holder, Plastic Handle Wireless B-Differential Gas Pressure Sensor Range: ~ 650 4650 hPa Wireless CO2 Gas Sensor Wireless CO3 Gas Sensor	Washing up Bowl	151
Water Bath Digital Triple-bath209Water bath Irwin school210Water Bath Laboratory 20L Digital201Water Bath Thermostatic205Water Bath Thermostatic 2 Ltr Shallow, Comp. W. S.steel Perforated False Base207Water Bath Thermostatic Digital202Water Bath Thermostatic Digital Oil Heating Circulator206Water Bath Thermostatic Unstirred Analogue204Water Bath Thermostatic Unstirred Digital203Water Bath Ultrasonic, Thermostatic Heated And Timed Jultrasonic -230V211Water Mixer Swan Neck Tap With Lever237Water Still 4 Ltr /Hour Borosil Automatic Double Distillation235Water Still 4 Ltr /Hour Borosil Basic234Water Still 4 Ltr /Hour Borosil Basic Plus234Water Still 4 Ltr /Hour Borosil Basic Plus234Water Still 4 Ltr /Hour Borosil Silica Heater235Water Still 4 Ltr /Hour Borosil Silica Heater235Water Still 4 Ltr /Hour Metal Element234Water Swan Neck Tap Hot237Water Swan Neck Tap Hot237Water Swan Neck Tap Hot237Weight Bottle Ground Squat Form 50X25mm147Weight Hooked Masses179Weight Set Hooked Weight178Weight Set Primary Weight178Weight Set Primary Weight178Weight Soltted Masses And Hanger,178Weiging Boats176Whirling Hygrometer168White Board Square Type330Winchester Bottle 2.5 Ltr147Wire Board Squar	Watch Glass	153
Water bath Irwin school Water Bath Laboratory 20L Digital Water Bath Laboratory 20L Digital Water Bath Thermostatic Water Bath Thermostatic 2 Ltr Shallow, Comp. W. S.steel Perforated False Base Water Bath Thermostatic Digital Water Bath Thermostatic Digital Oil Heating Circulator Water Bath Thermostatic Digital Oil Heating Circulator Water Bath Thermostatic Unstirred Analogue Water Bath Thermostatic Unstirred Digital Water Bath Ultrasonic, Thermostatic Heated And Timed "Ultrasonic -230V Water Bath Ultrasonic, Thermostatic Heated And Timed "Ultrasonic -230V Water Swan Neck Tap With Lever Water Still 4 Ltr /Hour Borosil Automatic Double Distillation Water Still 4 Ltr /Hour Borosil Automatic Single Distillation Water Still 4 Ltr /Hour Borosil Basic Water Still 4 Ltr /Hour Borosil Basic Plus Water Still 4 Ltr /Hour Borosil Silica Heater Water Still 4 Ltr /Hour Metal Element Water Swan Neck Tap Hot Water Still 4 Discound Squat Form 50X25mm 147 Weight Hooked Masses 179 Weight Masses Hexagonal With Lifting Ring 166 Weight Set Primary Weight 178 Weight Set Primary Weight Weight Set Primary Weight Weight Soltted Masses And Hanger, Weiging Boats 176 Whirling Hygrometer 168 White Board Square Type 330 Winchester Bottle 2.5 Ltr Wire Gauze With Ceramic Centre 164 Wire Holder, Plastic Handle Wireless Colorimeter/ Turbidity Sensor 20 Wireless Colorimeter/ Turbidity Sensor	Water Bath 100 °C - 16 Tubes	201
Water Bath Laboratory 20L Digital Water Bath Thermostatic Water Bath Thermostatic 2 Ltr Shallow, Comp. W. S.steel Perforated False Base Water Bath Thermostatic Digital Water Bath Thermostatic Digital Oil Heating Circulator Water Bath Thermostatic Digital Oil Heating Circulator Water Bath Thermostatic Unstirred Analogue Water Bath Thermostatic Unstirred Digital Water Bath Ultrasonic, Thermostatic Heated And Timed "Ultrasonic -230V Water Mixer Swan Neck Tap With Lever 237 Water Still 4 Ltr /Hour Borosil Automatic Double Distillation Water Still 4 Ltr /Hour Borosil Automatic Single Distillation Water Still 4 Ltr /Hour Borosil Basic Water Still 4 Ltr /Hour Borosil Basic Plus Water Still 4 Ltr /Hour Borosil Bisaic Pro Water Still 4 Ltr /Hour Borosil Silica Heater Water Still 4 Ltr /Hour Borosil Silica Heater Water Swan Neck Tap Cold With Lever 237 Water Swan Neck Tap Hot Water Swan Neck Tap Hot Water Swan Neck Tap Hot Weighing Bottle Ground Squat Form 50X25mm 147 Weight Hooked Masses 179 Weight Set Primary Weight 178 Weight Slotted Masses And Hanger, 178 White Board Square Type White Board Square Type White Board Square Type Winchester Bottle 2.5 Ltr Wire Gauze With Ceramic Centre Wire Holder, Plastic Handle Wireless CO2 Gas Sensor 19 Wireless CO3 Gas Sensor 19 Wireless CO3 Gas Sensor 19 Wireless CO3 Gas Sensor	Water Bath Digital Triple-bath	209
Water Bath Thermostatic Water Bath Thermostatic 2 Ltr Shallow, Comp. W. S.steel Perforated False Base Water Bath Thermostatic Digital Water Bath Thermostatic Digital Oil Heating Circulator Water Bath Thermostatic Digital Oil Heating Circulator Water Bath Thermostatic Unstirred Analogue Water Bath Thermostatic Unstirred Digital Water Bath Thermostatic Unstirred Digital Water Bath Ultrasonic, Thermostatic Heated And Timed "Ultrasonic -230V Water Mixer Swan Neck Tap With Lever 237 Water Still 4 Ltr /Hour Borosil Automatic Double Distillation 235 Water Still 4 Ltr /Hour Borosil Basic Water Still 4 Ltr /Hour Borosil Basic Water Still 4 Ltr /Hour Borosil Basic Plus Water Still 4 Ltr /Hour Borosil Basic Pro 234 Water Still 4 Ltr /Hour Borosil Bilaci Heater Water Still 4 Ltr /Hour Borosil Silica Heater 235 Water Still 4 Ltr /Hour Borosil Silica Heater 236 Water Still 4 Ltr /Hour Borosil Silica Heater 237 Water Swan Neck Tap Hot Weight Hooked Masses 179 Weight Hooked Masses 179 Weight Set Hooked Weight 178 Weight Set Primary Weight 178 Weight Set Primary Weight 178 Weight Slotted Masses And Hanger, 178 White Board Square Type 330 Winchester Bottle 2.5 Ltr Wire Gauze With Ceramic Centre Wire Holder, Plastic Handle Wireless B-Differential Gas Pressure Sensor Range: ~ 650 4650 hPa Wireless CO2 Gas Sensor Wireless CO3 Gas Sensor	Water bath Irwin school	210
Water Bath Thermostatic 2 Ltr Shallow, Comp. W. S.steel Perforated False Base Water Bath Thermostatic Digital Water Bath Thermostatic Digital Oil Heating Circulator Water Bath Thermostatic Unstirred Analogue Water Bath Thermostatic Unstirred Digital Water Bath Thermostatic Unstirred Digital Water Bath Ultrasonic, Thermostatic Heated And Timed, Ultrasonic -230V Water Bath Ultrasonic Thermostatic Heated And Timed, Ultrasonic -230V Water Mixer Swan Neck Tap With Lever Water Still 4 Ltr /Hour Borosil Automatic Double Distillation Water Still 4 Ltr /Hour Borosil Basic Water Still 4 Ltr /Hour Borosil Basic Plus Water Still 4 Ltr /Hour Borosil Basic Plus Water Still 4 Ltr /Hour Borosil Basic Pro Water Still 4 Ltr /Hour Borosil Silica Heater Water Still 4 Ltr /Hour Metal Element Water Swan Neck Tap Cold With Lever Water Swan Neck Tap Hot Water Swan Neck Tap Water Hours Water Ho	Water Bath Laboratory 20L Digital	201
Perforated False Base Water Bath Thermostatic Digital Water Bath Thermostatic Digital Oil Heating Circulator Water Bath Thermostatic Unstirred Analogue Water Bath Thermostatic Unstirred Analogue Water Bath Thermostatic Unstirred Digital Water Bath Ultrasonic, Thermostatic Heated And Timed "Ultrasonic -230V Water Mixer Swan Neck Tap With Lever Water Still 4 Ltr /Hour Borosil Automatic Double Distillation Water Still 4 Ltr /Hour Borosil Automatic Single Distillation Water Still 4 Ltr /Hour Borosil Basic Water Still 4 Ltr /Hour Borosil Basic Plus Water Still 4 Ltr /Hour Borosil Basic Pro Water Still 4 Ltr /Hour Borosil Silica Heater Water Still 4 Ltr /Hour Borosil Silica Heater Water Still 4 Ltr /Hour Metal Element Water Swan Neck Tap Cold With Lever Water Swan Neck Tap Cold With Lever Water Swan Neck Tap Hot Water Swan Neck Tap Hour Hours Water Swan Neck Tap Water H	Water Bath Thermostatic	205
Water Bath Thermostatic Digital Oil Heating Circulator206Water Bath Thermostatic Triple208Water Bath Thermostatic Unstirred Analogue204Water Bath Thermostatic Unstirred Digital203Water Bath Ultrasonic, Thermostatic Heated And Timed Jultrasonic -230V211Water Mixer Swan Neck Tap With Lever237Water Still 4 Ltr /Hour Borosil Automatic Double Distillation235Water Still 4 Ltr /Hour Borosil Automatic Single Distillation235Water Still 4 Ltr /Hour Borosil Basic234Water Still 4 Ltr /Hour Borosil Basic Plus234Water Still 4 Ltr /Hour Borosil Basic Pro234Water Still 4 Ltr /Hour Borosil Basic Pro234Water Still 4 Ltr /Hour Borosil Silica Heater235Water Still 4 Ltr /Hour Metal Element234Water Swan Neck Tap Cold With Lever237Water Swan Neck Tap Hot237Water Swan Neck Tap Hot237Weight Ground Squat Form 50X25mm147Weight Hooked Masses179Weight Masses Hexagonal With Lifting Ring179Weight Set Hooked Weight178Weights Hooked Flat179Weight Slotted Masses And Hanger,178Weight Slotted Masses And Hanger,178Weight Board Square Type330Winchester Bottle 2.5 Ltr147Wire Gauze With Ceramic Centre164Wire Holder, Plastic Handle165Wireless B-Differential Gas Pressure Sensor Range: 65020Wireless CO2 Gas Sensor19Wireless Colorimeter/ Tur		207
Water Bath Thermostatic Triple208Water Bath Thermostatic Unstirred Analogue204Water Bath Thermostatic Unstirred Digital203Water Bath Ultrasonic, Thermostatic Heated And Timed ,Ultrasonic -230V211Water Mixer Swan Neck Tap With Lever237Water Still 4 Ltr /Hour Borosil Automatic Double Distillation235Water Still 4 Ltr /Hour Borosil Automatic Single Distillation235Water Still 4 Ltr /Hour Borosil Basic234Water Still 4 Ltr /Hour Borosil Basic Plus234Water Still 4 Ltr /Hour Borosil Basic Pro234Water Still 4 Ltr /Hour Borosil Silica Heater235Water Still 4 Ltr /Hour Metal Element234Water Swan Neck Tap Cold With Lever237Water Swan Neck Tap Hot237Water Swan Neck Tap Hot237Weight Hooked Masses179Weight Hooked Masses179Weight Ring166Weight Set Hooked Weight178Weight Set Primary Weight178Weights Hooked Flat179Weights Hooked Flat179Weight Slotted Masses And Hanger,178Whirel Board Square Type330Winchester Bottle 2.5 Ltr147Wire Gauze With Ceramic Centre164Wire Holder, Plastic Handle165Wireless CO2 Gas Sensor19Wireless CO2 Gas Sensor20Wireless CO1 Gimmeter/Turbidity Sensor20	Water Bath Thermostatic Digital	202
Water Bath Thermostatic Unstirred Digital Water Bath Ultrasonic, Thermostatic Heated And Timed ,Ultrasonic -230V Water Mixer Swan Neck Tap With Lever Water Still 4 Ltr /Hour Borosil Automatic Double Distillation Water Still 4 Ltr /Hour Borosil Automatic Single Distillation Water Still 4 Ltr /Hour Borosil Basic Water Still 4 Ltr /Hour Borosil Basic Plus Water Still 4 Ltr /Hour Borosil Basic Pro Water Still 4 Ltr /Hour Borosil Silica Heater Water Still 4 Ltr /Hour Borosil Silica Heater Water Still 4 Ltr /Hour Metal Element Water Swan Neck Tap Cold With Lever Water Swan Neck Tap Cold With Lever Water Swan Neck Tap Hot Water Swan Neck Tap Hot Weight Ground Squat Form 50X25mm 147 Weight Hooked Masses 179 Weight Hooked Masses 179 Weight Set Hooked Weight Weight Set Primary Weight Weight Set Primary Weight Weight Slotted Masses And Hanger, Weights Hooked Flat White Board Square Type Winchester Bottle 2.5 Ltr Wire Gauze With Ceramic Centre Wire Holder, Plastic Handle Wireless CO2 Gas Sensor Wireless CO1 Firm With Lifting Sensor 200	Water Bath Thermostatic Digital Oil Heating Circulator	206
Water Bath Thermostatic Unstirred Digital Water Bath Ultrasonic, Thermostatic Heated And Timed ,Ultrasonic -230V Water Mixer Swan Neck Tap With Lever Water Still 4 Ltr /Hour Borosil Automatic Double Distillation Water Still 4 Ltr /Hour Borosil Automatic Single Distillation Water Still 4 Ltr /Hour Borosil Basic Water Still 4 Ltr /Hour Borosil Basic Plus Water Still 4 Ltr /Hour Borosil Basic Pro Water Still 4 Ltr /Hour Borosil Silica Heater Water Still 4 Ltr /Hour Borosil Silica Heater Water Still 4 Ltr /Hour Metal Element Water Swan Neck Tap Cold With Lever Water Swan Neck Tap Cold With Lever Water Swan Neck Tap Hot Water Swan Neck Tap Hot Water Test (Qualitative Ion) Kit Weight Ground Squat Form 50X25mm 147 Weight Hooked Masses 179 Weight Ring 166 Weight Set Hooked Weight 178 Weight Set Hooked Weight 178 Weight Slotted Masses And Hanger, Weight Slotted Masses And Hanger, Weight Slotted Masses And Hanger, White Board Square Type 330 Winchester Bottle 2.5 Ltr Wire Gauze With Ceramic Centre Wire Holder, Plastic Handle Wireless B-Differential Gas Pressure Sensor Range: ~ 650 4650 hPa Wireless CO2 Gas Sensor Wireless CO2 Gas Sensor 19 Wireless CO2 Gas Sensor	Water Bath Thermostatic Triple	208
Water Bath Ultrasonic, Thermostatic Heated And Timed Jultrasonic -230V Water Mixer Swan Neck Tap With Lever Water Still 4 Ltr /Hour Borosil Automatic Double Distillation Water Still 4 Ltr /Hour Borosil Automatic Single Distillation Water Still 4 Ltr /Hour Borosil Basic Water Still 4 Ltr /Hour Borosil Basic Plus Water Still 4 Ltr /Hour Borosil Basic Pro 234 Water Still 4 Ltr /Hour Borosil Silica Heater Water Still 4 Ltr /Hour Borosil Silica Heater Water Still 4 Ltr /Hour Metal Element 235 Water Still 4 Ltr /Hour Metal Element Water Swan Neck Tap Cold With Lever 237 Water Swan Neck Tap Hot Weight Ground Squat Form 50X25mm 147 Weight Hooked Masses 179 Weight Masses Hexagonal With Lifting Ring Weight Set Hooked Weight 178 Weight Set Primary Weight Weight Slotted Masses And Hanger, Weight Slotted Masses And Hanger, Whirling Hygrometer Whire Board Square Type Winchester Bottle 2.5 Ltr Wire Gauze With Ceramic Centre Wire Holder, Plastic Handle Wireless B-Differential Gas Pressure Sensor Range: ~ 650 4650 hPa Wireless CO2 Gas Sensor 19 Wireless CO2 Gas Sensor 200	Water Bath Thermostatic Unstirred Analogue	204
Water Mixer Swan Neck Tap With Lever Water Still 4 Ltr /Hour Borosil Automatic Double Distillation Water Still 4 Ltr /Hour Borosil Automatic Single Distillation Water Still 4 Ltr /Hour Borosil Basic Water Still 4 Ltr /Hour Borosil Basic Water Still 4 Ltr /Hour Borosil Basic Plus Water Still 4 Ltr /Hour Borosil Basic Pro Water Still 4 Ltr /Hour Borosil Basic Pro Water Still 4 Ltr /Hour Borosil Basic Pro Water Still 4 Ltr /Hour Borosil Silica Heater Water Still 4 Ltr /Hour Metal Element Water Swan Neck Tap Cold With Lever Water Swan Neck Tap Hot Water Swan Neck Tap Hot Weight Ground Squat Form 50X25mm 147 Weight Hooked Masses 179 Weight Masses Hexagonal With Lifting Ring 166 Weight Set Hooked Weight 178 Weight Set Primary Weight Weight Sotted Masses And Hanger, Weight Slotted Masses And Hanger, Whirling Hygrometer Whirling Hygrometer Whire Board Square Type Winchester Bottle 2.5 Ltr Wire Gauze With Ceramic Centre Wire Holder, Plastic Handle Wireless B-Differential Gas Pressure Sensor Range: ~ 650 4650 hPa Wireless CO2 Gas Sensor 19 Wireless CO2 Gas Sensor	Water Bath Thermostatic Unstirred Digital	203
Water Still 4 Ltr /Hour Borosil Automatic Double Distillation Water Still 4 Ltr /Hour Borosil Automatic Single Distillation Water Still 4 Ltr /Hour Borosil Basic Water Still 4 Ltr /Hour Borosil Basic Plus Water Still 4 Ltr /Hour Borosil Basic Pro 234 Water Still 4 Ltr /Hour Borosil Basic Pro Water Still 4 Ltr /Hour Borosil Basic Pro Water Still 4 Ltr /Hour Borosil Silica Heater 235 Water Still 4 Ltr /Hour Metal Element Water Swan Neck Tap Cold With Lever 237 Water Swan Neck Tap Hot Water Swan Neck Tap Hot Weighing Bottle Ground Squat Form 50X25mm 147 Weight Hooked Masses 179 Weight Masses Hexagonal With Lifting Ring 166 Weight Set Hooked Weight 178 Weight Set Primary Weight 178 Weight Set Primary Weight 178 Weight Slotted Masses And Hanger, Whirling Hygrometer 168 Whire Board Square Type 330 Winchester Bottle 2.5 Ltr Wire Gauze With Ceramic Centre 164 Wire Holder, Plastic Handle Wireless B-Differential Gas Pressure Sensor Range: ~ 650 4650 hPa Wireless CO2 Gas Sensor 19 Wireless CO2 Gas Sensor 20	•	211
Water Still 4 Ltr /Hour Borosil Automatic Single Distillation Water Still 4 Ltr /Hour Borosil Basic Water Still 4 Ltr /Hour Borosil Basic Plus Water Still 4 Ltr /Hour Borosil Basic Pro 234 Water Still 4 Ltr /Hour Borosil Basic Pro Water Still 4 Ltr /Hour Borosil Silica Heater Water Still 4 Ltr /Hour Metal Element 234 Water Swan Neck Tap Cold With Lever Water Swan Neck Tap Hot Water Swan Neck Tap Hot Water Test (Qualitative Ion) Kit Weighing Bottle Ground Squat Form 50X25mm 147 Weight Hooked Masses 179 Weight Masses Hexagonal With Lifting Ring 166 Weight Set Hooked Weight 178 Weight Set Primary Weight Weight Slotted Masses And Hanger, Weight Slotted Masses And Hanger, Whirling Hygrometer White Board Square Type 330 Winchester Bottle 2.5 Ltr Wire Gauze With Ceramic Centre 164 Wire Holder, Plastic Handle Wireless B-Differential Gas Pressure Sensor Range: ~ 650 4650 hPa Wireless CO2 Gas Sensor 19 Wireless COlorimeter/ Turbidity Sensor 20	Water Mixer Swan Neck Tap With Lever	237
Water Still 4 Ltr /Hour Borosil Basic Water Still 4 Ltr /Hour Borosil Basic Plus 234 Water Still 4 Ltr /Hour Borosil Basic Pro 234 Water Still 4 Ltr /Hour Borosil Basic Pro 235 Water Still 4 Ltr /Hour Borosil Silica Heater 235 Water Still 4 Ltr /Hour Metal Element 234 Water Swan Neck Tap Cold With Lever 237 Water Swan Neck Tap Hot 237 Water Swan Neck Tap Hot 238 Weighing Bottle Ground Squat Form 50X25mm 147 Weight Hooked Masses 179 Weight Masses Hexagonal With Lifting Ring 179 Weight Set Hooked Weight 178 Weight Set Primary Weight 178 Weight Solotted Masses And Hanger, 178 Weight Slotted Masses And Hanger, 178 Weight Board Square Type 330 Winchester Bottle 2.5 Ltr 147 Wire Gauze With Ceramic Centre 164 Wire Holder, Plastic Handle 165 Wireless B-Differential Gas Pressure Sensor Range: ~ 650 4650 hPa Wireless CO2 Gas Sensor 19 Wireless Colorimeter/ Turbidity Sensor		235
Water Still 4 Ltr /Hour Borosil Basic Plus Water Still 4 Ltr /Hour Borosil Basic Pro 234 Water Still 4 Ltr /Hour Borosil Silica Heater Water Still 4 Ltr /Hour Metal Element Water Swan Neck Tap Cold With Lever 237 Water Swan Neck Tap Hot Water Swan Neck Tap Hot Water Test (Qualitative Ion) Kit Weighing Bottle Ground Squat Form 50X25mm 147 Weight Hooked Masses 179 Weight Masses Hexagonal With Lifting Ring Weight Set Hooked Weight Weight Set Primary Weight 178 Weights Hooked Flat Weight Slotted Masses And Hanger, Weight Slotted Masses And Hanger, Weiging Boats White Board Square Type Winchester Bottle 2.5 Ltr Wire Gauze With Ceramic Centre Wire Holder, Plastic Handle Wireless B-Differential Gas Pressure Sensor Range: ~~ 650 4650 hPa Wireless CO2 Gas Sensor 19 Wireless Colorimeter/ Turbidity Sensor	Water Still 4 Ltr /Hour Borosil Automatic Single Distillation	235
Water Still 4 Ltr /Hour Borosil Basic Pro Water Still 4 Ltr /Hour Borosil Silica Heater 235 Water Still 4 Ltr /Hour Metal Element Water Swan Neck Tap Cold With Lever 237 Water Swan Neck Tap Hot 238 Water Test (Qualitative Ion) Kit 25 Weighing Bottle Ground Squat Form 50X25mm 147 Weight Hooked Masses 179 Weight Masses Hexagonal With Lifting Ring 166 Weight Set Hooked Weight 178 Weight Set Primary Weight Weight Slotted Masses And Hanger, Weight Slotted Masses And Hanger, Whirling Hygrometer Whirling Hygrometer Whire Board Square Type 330 Winchester Bottle 2.5 Ltr Wire Gauze With Ceramic Centre Wire Holder, Plastic Handle Wireless B-Differential Gas Pressure Sensor Range: ~ 650 4650 hPa Wireless CO2 Gas Sensor 19 Wireless COlorimeter/ Turbidity Sensor 20	Water Still 4 Ltr /Hour Borosil Basic	234
Water Still 4 Ltr /Hour Borosil Silica Heater Water Still 4 Ltr /Hour Metal Element Water Swan Neck Tap Cold With Lever 237 Water Swan Neck Tap Hot 237 Water Test (Qualitative Ion) Kit Weighing Bottle Ground Squat Form 50X25mm 147 Weight Hooked Masses 179 Weight Masses Hexagonal With Lifting Ring Weight Set Hooked Weight 178 Weight Set Primary Weight Weight Sot Primary Weight Weight Slotted Masses And Hanger, Weiging Boats 176 Whirling Hygrometer 168 White Board Square Type Winchester Bottle 2.5 Ltr Wire Gauze With Ceramic Centre 164 Wire Holder, Plastic Handle Wireless B-Differential Gas Pressure Sensor Range: ~ 650 4650 hPa Wireless CO2 Gas Sensor 19 Wireless COlorimeter/ Turbidity Sensor 20	Water Still 4 Ltr /Hour Borosil Basic Plus	234
Water Still 4 Ltr / Hour Metal Element Water Swan Neck Tap Cold With Lever 237 Water Swan Neck Tap Hot 237 Water Test (Qualitative Ion) Kit 25 Weighing Bottle Ground Squat Form 50X25mm 147 Weight Hooked Masses 179 Weight Masses Hexagonal With Lifting Ring 166 Weight Set Hooked Weight 178 Weight Set Primary Weight 178 Weights Hooked Flat 179 Weight Slotted Masses And Hanger, Weight Slotted Masses And Hanger, 178 Whirling Hygrometer 168 White Board Square Type Winchester Bottle 2.5 Ltr Wire Gauze With Ceramic Centre 164 Wire Holder, Plastic Handle Wireless B-Differential Gas Pressure Sensor Range: ~~ 650 4650 hPa Wireless CO2 Gas Sensor 19 Wireless Colorimeter/ Turbidity Sensor	Water Still 4 Ltr /Hour Borosil Basic Pro	234
Water Swan Neck Tap Cold With Lever Water Swan Neck Tap Hot Water Test (Qualitative Ion) Kit Weighing Bottle Ground Squat Form 50X25mm 147 Weight Hooked Masses 179 Weight Masses Hexagonal With Lifting Ring Weight Ring 166 Weight Set Hooked Weight 178 Weight Set Primary Weight 178 Weight Solotted Masses And Hanger, Weight Slotted Masses And Hanger, 178 Weighging Boats 176 Whirling Hygrometer 168 White Board Square Type Winchester Bottle 2.5 Ltr Wire Gauze With Ceramic Centre Wire Holder, Plastic Handle Wireless B-Differential Gas Pressure Sensor Range: ~~ 650 4650 hPa Wireless CO2 Gas Sensor 19 Wireless Colorimeter/ Turbidity Sensor	Water Still 4 Ltr /Hour Borosil Silica Heater	235
Water Swan Neck Tap Hot Water Test (Qualitative Ion) Kit 25 Weighing Bottle Ground Squat Form 50X25mm 147 Weight Hooked Masses 179 Weight Masses Hexagonal With Lifting Ring 166 Weight Set Hooked Weight 178 Weight Set Primary Weight Weight Set Primary Weight 178 Weight Slotted Masses And Hanger, Weight Slotted Masses And Hanger, 178 Whirling Hygrometer 168 White Board Square Type Winchester Bottle 2.5 Ltr 147 Wire Gauze With Ceramic Centre 164 Wire Holder, Plastic Handle Wireless B-Differential Gas Pressure Sensor Range: ~~ 650 4650 hPa Wireless CO2 Gas Sensor 19 Wireless Colorimeter/ Turbidity Sensor 20	Water Still 4 Ltr /Hour Metal Element	234
Water Test (Qualitative Ion) Kit Weighing Bottle Ground Squat Form 50X25mm 147 Weight Hooked Masses 179 Weight Masses Hexagonal With Lifting Ring 166 Weight Set Hooked Weight 178 Weight Set Primary Weight 178 Weights Hooked Flat 179 Weight Slotted Masses And Hanger, Weight Slotted Masses And Hanger, 178 Whirling Hygrometer 168 White Board Square Type Winchester Bottle 2.5 Ltr 147 Wire Gauze With Ceramic Centre 164 Wire Holder, Plastic Handle Wireless B-Differential Gas Pressure Sensor Range: -~ 650 4650 hPa Wireless CO2 Gas Sensor 19 Wireless Colorimeter/ Turbidity Sensor	Water Swan Neck Tap Cold With Lever	237
Weighing Bottle Ground Squat Form 50X25mm Weight Hooked Masses 179 Weight Masses Hexagonal With Lifting Ring Weight Ring 166 Weight Set Hooked Weight 178 Weight Set Primary Weight Weight Shocked Flat Weight Slotted Masses And Hanger, 178 Weight Slotted Masses And Hanger, 178 Weiging Boats 176 Whirling Hygrometer 168 White Board Square Type 330 Winchester Bottle 2.5 Ltr Wire Gauze With Ceramic Centre Wire Holder, Plastic Handle Wireless B-Differential Gas Pressure Sensor Range: -~ 650 4650 hPa Wireless CO2 Gas Sensor 19 Wireless Colorimeter/ Turbidity Sensor	Water Swan Neck Tap Hot	237
Weight Hooked Masses Weight Masses Hexagonal With Lifting Ring 179 Weight Ring 166 Weight Set Hooked Weight 178 Weight Set Primary Weight 178 Weights Hooked Flat 179 Weight Slotted Masses And Hanger, 178 Weight Slotted Masses And Hanger, 178 Weiging Boats 176 Whirling Hygrometer 168 White Board Square Type 330 Winchester Bottle 2.5 Ltr 147 Wire Gauze With Ceramic Centre 164 Wire Holder, Plastic Handle Wireless B-Differential Gas Pressure Sensor Range: ~~ 650 4650 hPa Wireless CO2 Gas Sensor 19 Wireless CO2 Gas Sensor 19	Water Test (Qualitative Ion) Kit	25
Weight Hooked Masses Weight Masses Hexagonal With Lifting Ring 179 Weight Ring 166 Weight Set Hooked Weight 178 Weight Set Primary Weight 178 Weights Hooked Flat 179 Weight Slotted Masses And Hanger, 178 Weight Slotted Masses And Hanger, 178 Weiging Boats 176 Whirling Hygrometer 168 White Board Square Type 330 Winchester Bottle 2.5 Ltr 147 Wire Gauze With Ceramic Centre 164 Wire Holder, Plastic Handle Wireless B-Differential Gas Pressure Sensor Range: ~~ 650 4650 hPa Wireless CO2 Gas Sensor 19 Wireless CO2 Gas Sensor 19	Weighing Bottle Ground Squat Form 50X25mm	147
Weight Masses Hexagonal With Lifting Ring Weight Ring 166 Weight Set Hooked Weight 178 Weight Set Primary Weight 179 Weights Hooked Flat Weight Slotted Masses And Hanger, Weight Slotted Masses And Hanger, 178 Whirling Hygrometer 168 White Board Square Type 330 Winchester Bottle 2.5 Ltr 147 Wire Gauze With Ceramic Centre 164 Wire Holder, Plastic Handle Wireless B-Differential Gas Pressure Sensor Range: -~ 650 4650 hPa Wireless CO2 Gas Sensor 19 Wireless Colorimeter/Turbidity Sensor 20		179
Weight Ring 166 Weight Set Hooked Weight 178 Weight Set Primary Weight 178 Weights Hooked Flat 179 Weight Slotted Masses And Hanger, 178 Weiging Boats 176 Whirling Hygrometer 168 White Board Square Type 330 Winchester Bottle 2.5 Ltr 147 Wire Gauze With Ceramic Centre 164 Wire Holder, Plastic Handle 165 Wireless B-Differential Gas Pressure Sensor Range: ~~ 650 4650 hPa Wireless CO2 Gas Sensor 19 Wireless Colorimeter/Turbidity Sensor 20		179
Weight Set Hooked Weight Weight Set Primary Weight 178 Weight Shooked Flat 179 Weight Slotted Masses And Hanger, 178 Weiging Boats 176 Whirling Hygrometer 168 White Board Square Type 330 Winchester Bottle 2.5 Ltr 147 Wire Gauze With Ceramic Centre 164 Wire Holder, Plastic Handle Wireless B-Differential Gas Pressure Sensor Range: -~ 650 4650 hPa Wireless CO2 Gas Sensor 19 Wireless Colorimeter/Turbidity Sensor		
Weight Set Primary Weight Weights Hooked Flat Weight Slotted Masses And Hanger, Weiging Boats T76 Whirling Hygrometer White Board Square Type Winchester Bottle 2.5 Ltr Wire Gauze With Ceramic Centre Wire Holder, Plastic Handle Wireless B-Differential Gas Pressure Sensor Range: -~ 650 4650 hPa Wireless CO2 Gas Sensor Wireless Colorimeter/Turbidity Sensor		
Weights Hooked Flat Weight Slotted Masses And Hanger, Weiging Boats 176 Whirling Hygrometer 168 White Board Square Type 330 Winchester Bottle 2.5 Ltr 147 Wire Gauze With Ceramic Centre 164 Wire Holder, Plastic Handle Wireless B-Differential Gas Pressure Sensor Range: ~~ 650 4650 hPa Wireless CO2 Gas Sensor 19 Wireless Colorimeter/Turbidity Sensor	<u> </u>	
Weight Slotted Masses And Hanger, Weiging Boats 176 Whirling Hygrometer 168 White Board Square Type 330 Winchester Bottle 2.5 Ltr 147 Wire Gauze With Ceramic Centre 164 Wire Holder, Plastic Handle Wireless B-Differential Gas Pressure Sensor Range: -~ 650 4650 hPa Wireless CO2 Gas Sensor 19 Wireless Colorimeter/Turbidity Sensor 20		
Weiging Boats 176 Whirling Hygrometer 168 White Board Square Type 330 Winchester Bottle 2.5 Ltr 147 Wire Gauze With Ceramic Centre 164 Wire Holder, Plastic Handle 165 Wireless B-Differential Gas Pressure Sensor Range: -~ 650 4650 hPa 20 Wireless CO2 Gas Sensor 19 Wireless Colorimeter/ Turbidity Sensor 20		
Whirling Hygrometer 168 White Board Square Type 330 Winchester Bottle 2.5 Ltr 147 Wire Gauze With Ceramic Centre 164 Wire Holder, Plastic Handle 165 Wireless B-Differential Gas Pressure Sensor Range: ~~ 650 4650 hPa 20 Wireless CO2 Gas Sensor 19 Wireless Colorimeter/Turbidity Sensor 20		
White Board Square Type Winchester Bottle 2.5 Ltr 147 Wire Gauze With Ceramic Centre 164 Wire Holder, Plastic Handle Wireless B-Differential Gas Pressure Sensor Range: -~ 650 4650 hPa Wireless CO2 Gas Sensor 19 Wireless Colorimeter/Turbidity Sensor 20		
Winchester Bottle 2.5 Ltr Wire Gauze With Ceramic Centre 164 Wire Holder, Plastic Handle Wireless B-Differential Gas Pressure Sensor Range: ~~ 650 4650 hPa Wireless CO2 Gas Sensor 19 Wireless Colorimeter/Turbidity Sensor 20		
Wire Gauze With Ceramic Centre Wire Holder, Plastic Handle Wireless B-Differential Gas Pressure Sensor Range: ~~ 650 4650 hPa Wireless CO2 Gas Sensor Wireless Colorimeter/Turbidity Sensor 20		
Wire Holder, Plastic Handle Wireless B-Differential Gas Pressure Sensor Range: -~ 650 4650 hPa Wireless CO2 Gas Sensor 19 Wireless Colorimeter/Turbidity Sensor 20		
Wireless B-Differential Gas Pressure Sensor Range: -~ 650 4650 hPa Wireless CO2 Gas Sensor 19 Wireless Colorimeter/Turbidity Sensor 20		
4650 hPa 20 Wireless CO2 Gas Sensor 19 Wireless Colorimeter/ Turbidity Sensor 20		103
Wireless Colorimeter/Turbidity Sensor 20	4650 hPa	
·		
Wireless Conductivity Sensor 18	•	
	Wireless Conductivity Sensor	18

Wireless Current Sensor	17
Wireless Dissolved Oxygen Sensor	20
Wireless Electrode Amplifier Sensor	19
Wireless Fine Particles Sensor	19
Wireless Force & Acceleration	18
Wireless Gas Pressure Sensor	17
Wireless ORP	19
Wireless Oxygen Gas Sensor	19
Wireless PH Sensor	18
Wireless pH with Glass Body (100oC)	18
Wireless Salinity Sensor	20
Wireless Temperature / Humidity Sensor	20
Wireless Temperature Sensor	17
Wireless Thermocouple Sensor	20
Wireless Voltage Sensor	17
Wire PVC Coated Reel (MS)	199
Wooden Splints	164
z	
Zinc Sulphide Model Kit	40

URTHER CATALOGUES

- GENERAL SCIENCE CATALOGUE
- BIOLOGY & ENVIRONMENTAL CATALOGUE
- **PHYSICS & STEAM CATALOGUE**
- HEALTH CARE EDUCATION CATALOGUE
- FURNITURES CATALOGUE
- PRESCHOOL & KG FURNITURE CATALOGUE



