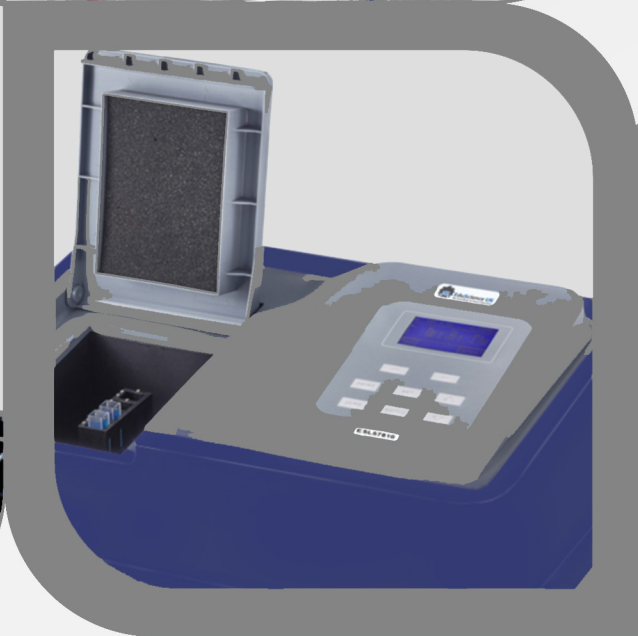




EduScience UK
We Contribute To Future Education



Labware Catalogue

+44 (20) 38685740

www.eduscienceuk.com

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Dear Valued Customers

I would like to Thank you for helping EduScience UK Ltd Company in accomplishing its mission: to contribute in future education.

We strive to provide educators worldwide the best innovative products, services and solutions.

We have added in this catalogue over 6000 products including

our latest STEAM and Science Kits that has been developed to adapt the different curriculum needs along with teaching manuals that make hands-on easy for students so they are engaged and have fun doing science experiments in the same time

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Sincerely
EduScience UK Ltd



EduScience UK
We Contribute To Future Education

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

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

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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.

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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.

STEM

- 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

Stem 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 students across all age ranges.

EduScience Kits and models support student's learning of principles, concepts and methodology. All of these skills are transferable within current curricula.

Our Kits, excite and inspire as well as supporting 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.

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.

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

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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.

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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



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CHEMISTRY

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- Gas Preparation Analysis
- Jointed Glassware64



CMES Data Logger

is a modern advanced graphic data-logger. It is a handheld 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, 8 g)

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

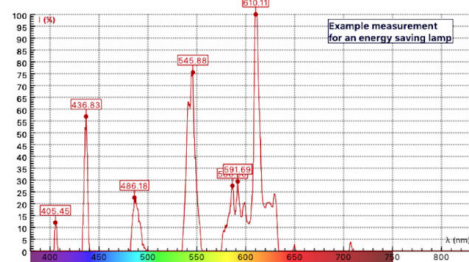
Our Coach software is the most versatile and complete software for STEM Education.

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:

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..



ESD50078





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 μS , 0 .. 2000 μS , 0 .. 20000 μS Resolution (12-bit): 0.082 μS , 0.82 μS , 8.2 μS

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

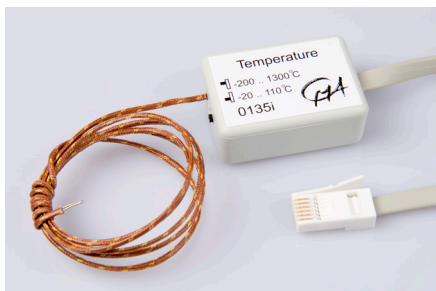
Can be used to:

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

ESD50083

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



Temperature Sensor *

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

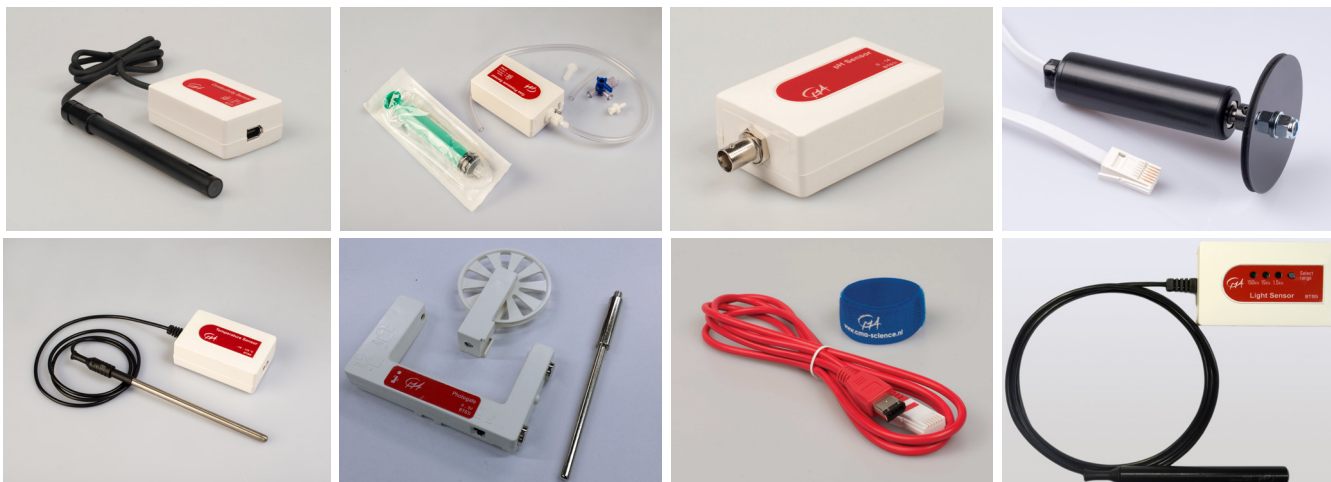
Can be used to:

- 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

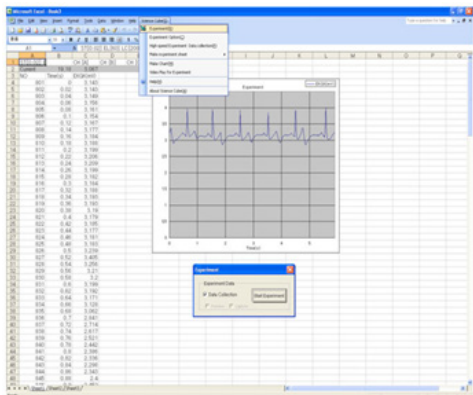
ESD50094



Xlogger system introduction

Xlogger 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

Xlogger 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.xlogger.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 Xlogger 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 PH Sensor

Xlogger PH sensor with probe

ESD50194



USB Oxygen Sensor

Xlogger Oxygen Sensor.
 Range: 0 - 100% Oxygen

ESD50184



USB Turbidity Sensor

Xlogger Turbidity Sensor.
 Range: 0-200 NTU
 Accuracy: ± 2 NTU under 25NTU, $\pm 5\%$ over 25NTU

ESD50189





USB Barometer Sensor

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

ESD50188



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,

ESD50248



Data-Logger stand

Plastic stand for the CMES data-logger.

ESD50249



BT - IEEE1394 cable

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).

ESD50250



NEW

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

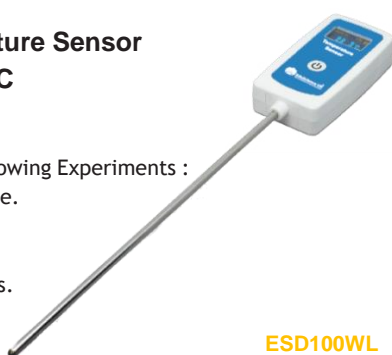
Range:- 40 to 125 C

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.
- Radiation equilibrium



ESD100WL

Wireless Voltage Sensor

Range:- 5v to + 15 v

Measuring Range : - 15 v to + 15 v

can be used for the Following

Experiments :

Ohm's law (Relationship between voltage and current)

Battery charge And discharge

Series/Parallel connection of resistance

The voltage of a solar cell



ESD101VWL



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 law. 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

ESD102CWL



Wireless Gas Pressure Sensor

Range: -1000~+3000hPa

Resolution: 0.244 hPa

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 ; Boyle's Law ; Cloud creation principle

Reaction rate according to acid concentration

Solubility of Gas with Temperature

ESD103DWL



NEW



Wireless PH Sensor

Range : 0~14 pH

Resolution: 0.001 pH

Wireless pH sensor is a sensor that measures hydrogen ion concentration.

It is a principle to determine the pH value from the potential difference 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

ESD104PHWL



Wireless pH with Glass Body (100°C)

Range : 0~14 pH

Resolution: 0.001 pH

Wireless pH sensor is a sensor that measures hydrogen ion concentration.

It is a principle to determine the pH value from the potential difference 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

ESD104PHGLWL



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)

ESD101VWL



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

ESD107ECWL



NEW



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

ESD111C02WL



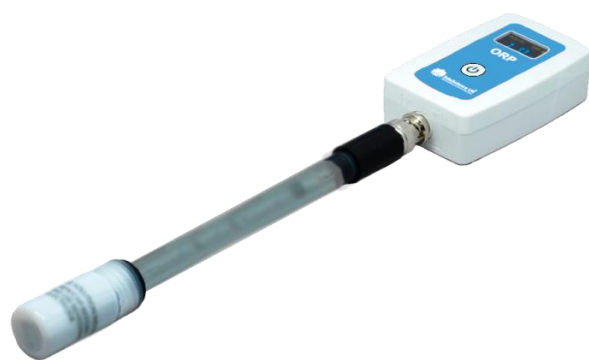
Wireless Oxygen Gas Sensor

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

ESD11302WL



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

ESDORPWL



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

ESD115PMWL



Wireless Electrode Amplifier Sensor

ESD114EWL



NEW



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

Reaction rate according to surface area

ESD116PWL



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

ESD117HWL



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

ESD118DOWL



Wireless Salinity Sensor

Range: 0~ 50 pot

Resolution: 0.02 pot

Experiment list Measuring sea salt level Measuring salinity by season

ESD119SWL



Wireless Thermocouple Sensor

Range: -200 ~ 1200°C

Resolution: 0.6 °C

Experiment list

Flash point measurement

Temperature measurement for inner flame, outer flame and flame core

ESD123TCWL

NEW

Wireless Colorimeter/ Turbidity Sensor

ESD128CTWL





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



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.

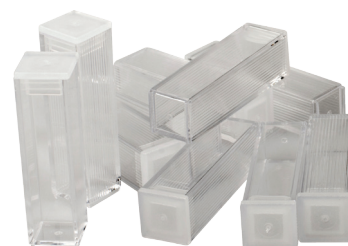
ESD50259



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



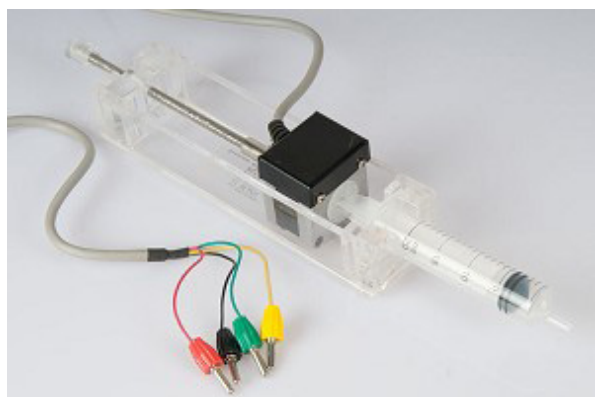
Cuvette for Colorimeter BT29i

ESD50261



Cuvette holder for Colorimeter BT29i

ESD50262



Titrator - Step - Motor Burette

ESD50263



**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 2 pcs
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 Elements 1 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

ESC54138





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

ESC54143





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

ESC54146

Chemical Formulas I Refill

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

ESC54148





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.

ESC54153

Molarity I Refill

ESC54154





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.

ESC54156





Ice Melting Kit

This 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 Gragnell 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 x 40 x 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

ESC54158

Charls Law Apparatus Pk Of 10

ESC54157





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 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

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

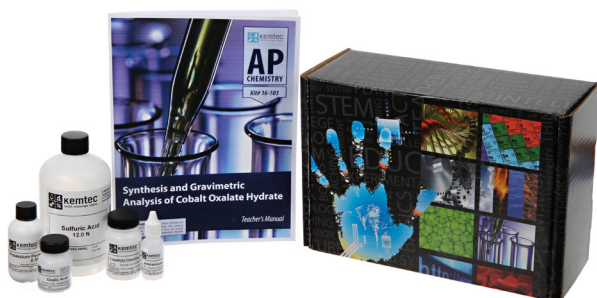
ESC54236



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 ($A = \epsilon b c$) after determining Max. Fulfill 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 instructor's 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

ESC54238





Acid Base Titration: an Inquiry Investigation

Students standardize a sodium hydroxide titrant 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

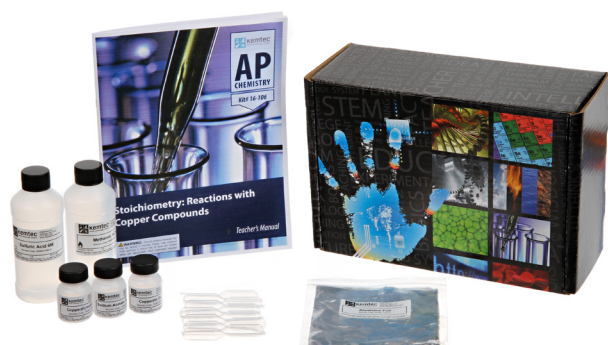
ESC54239



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 instructor's 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 instructor's 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 Honors 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

ESC54242





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. Fulfill 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

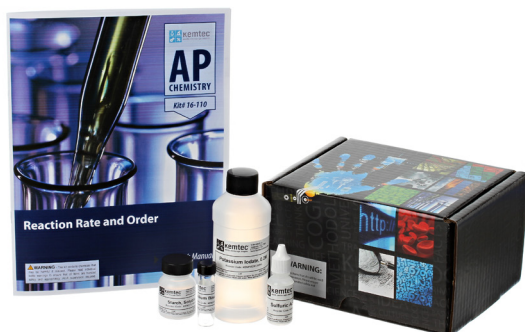
ESC54243



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

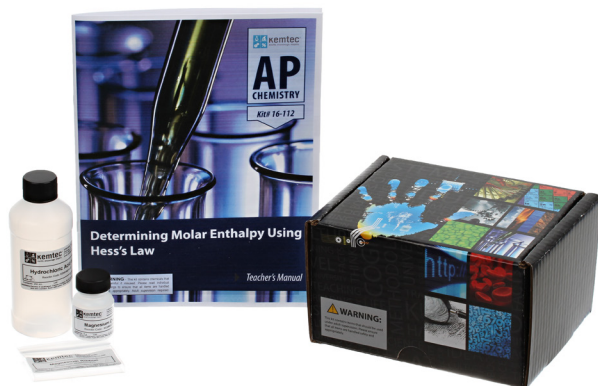
ESC54244



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. Grades 10-14

ESC54246





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 Honors 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

ESC54250





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

ESC54253





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 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



Chromatography Tank With Lid

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

ESC54324



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.

ESC54325





Drop Neutralization Kit

A great way to teach 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've 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.

ESC54364





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 Titrations. 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

ESC54367





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

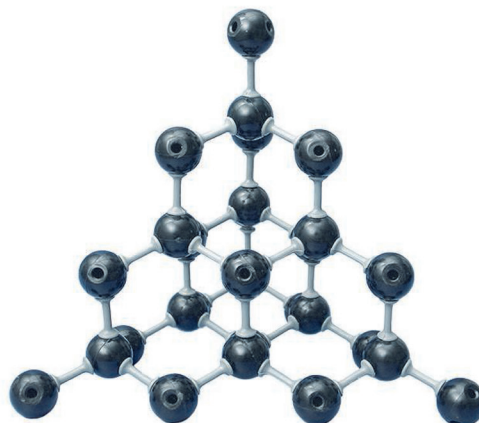
Consist of :

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

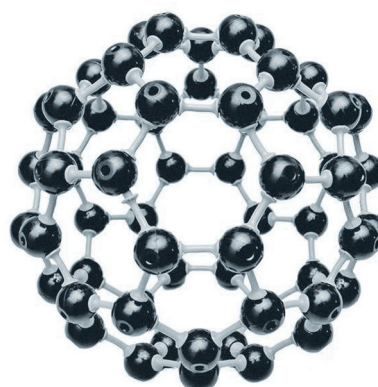
Consist of 57 plastic balls with 5 holes, 69 medium connectors (grey), and 14 long connectors (purple) represents as carbon atoms and bonds , All parts are packed in a plastic box for storage while not in use

Complete with manual instruction

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

Weight :0.480 kg

ESC54391



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.

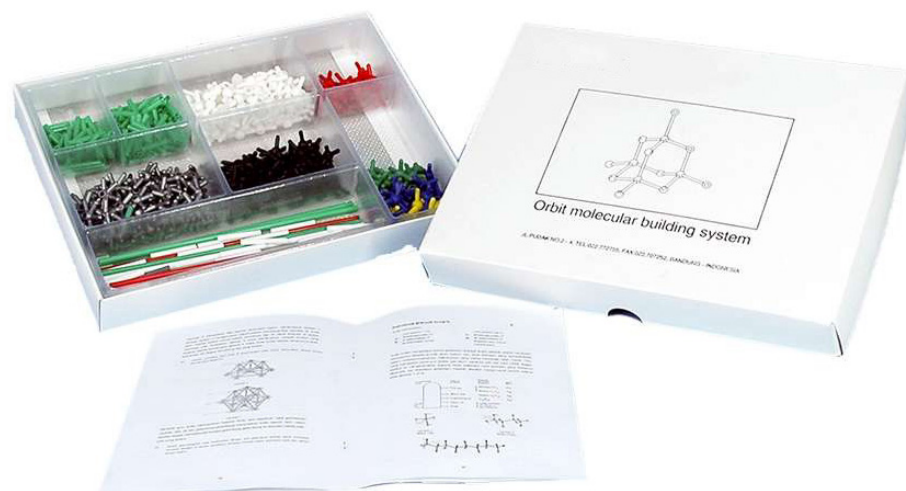
Complete with manual instruction.

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.

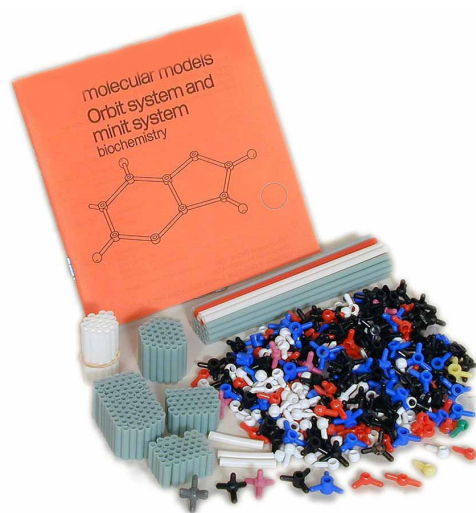
All of the parts fit neatly into compartmentalized box.

Complete with manual instruction.

Set of Molecular Model Orbit System, consist of :

- | | |
|--|--|
| 1 Oxygen Type a Red 15pcs Legs 1pc | 16 Metal Type q3 Grey 80pcs Legs 3pcs |
| 2 Halogen Type a Green 15pcs Legs 1pc | 17 Bonding pegs x Translucent 10pcs Legs 1pc |
| 3 Hydrogen Type a White 120pcs Legs 1pc | 18 Plastic straw 4 x 210 mm Grey 3 |
| 4 Hydrogen Type b White 50pcs Legs 2pc | 19 Plastic straw 4 x 210 mm Green 5 |
| 5 Sulphur Type c Yellow 25pcs Legs 2pc | 20 Plastic straw 4 x 210 mm Red 3 |
| 6 Oxygen Type d Red 30pcs Legs 2 | 21 Plastic straw 4 x 210 mm White 5 |
| 7 Carbon Type j Black 50pcs Legs 3pcs | 22 Plastic straw 4 x 120 mm Clear 3 |
| 8 Nitrogen Type j Blue 15pcs Legs 3pcs | 23 Plastic straw 4 x 35 mm Green 350 |
| 9 Carbon Type k Black 78pcs Legs 4pcs | 24 Plastic straw 4 x 20 mm Green 140 |
| 10 Nitrogen Type k Blue 5pcs Legs 4pcs | 25 Plastic straw 4 x 35 mm White 45 |
| 11 Oxygen Type k Red 21pcs Legs 4pcs | 26 Plastic straw 4 x 50 mm White 30 |
| 12 Sulphur Type k Yellow 5pcs Legs 4pcs | Dimension :(L) 31.00 x (W) 22.50 x (H) 4.50 cm |
| 13 Halogen Type l Green 30pcs Legs 6pcs | Weight :0.600 kg |
| 14 Metal Type l Grey 30pcs Legs 6pcs | |
| 15 Metal Type q6 Grey 40pcs Legs 6pcs (reel shape) | |

ESC54392



Biochemistry Student Kit

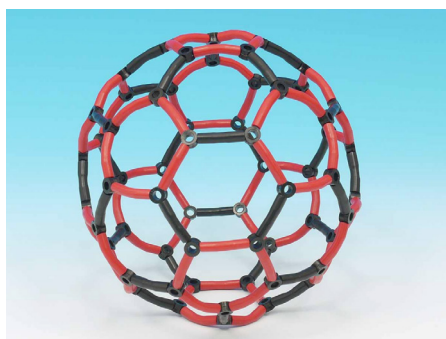
Learn about amino acids; monosaccharides, glycerol, fatty acids, steroids, purines and pyrimidines, peptides, disaccharides, lipids, nucleosides, nucleotides, proteins, polysaccharides, nucleic acids.

Advanced student set in pocket-sized plastic container.

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

ESC54401





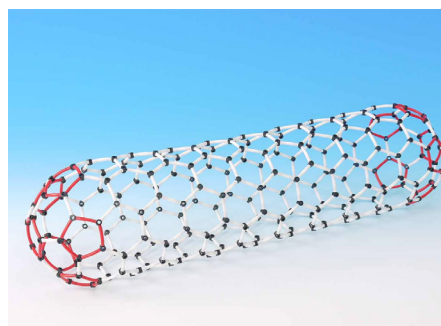
Carbon 60 Model

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 types of bonding

ESC54393



Carbon Nano-tube Model

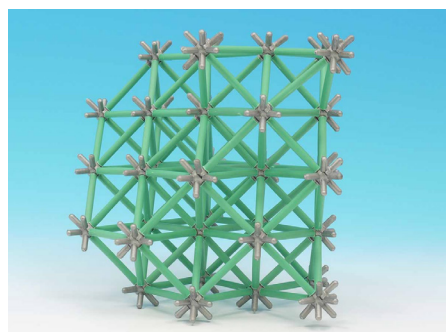
Carbon nano-tubes are currently one of the most intensively studied nano-materials with their unique molecular structure resulting in several potential exciting applications in current day nano-science.

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

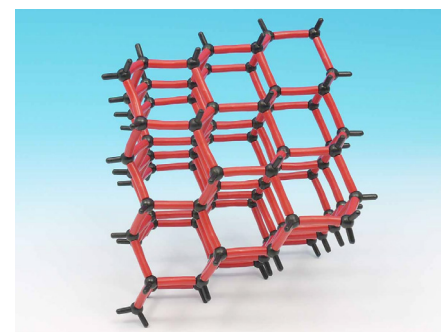


Copper Model Kit

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

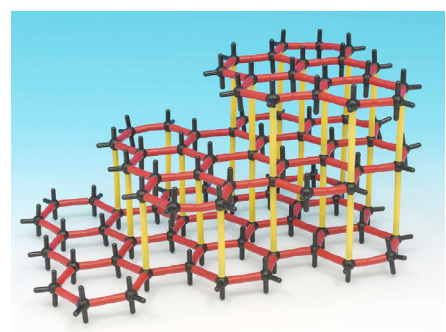


Diamond Model Kit

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

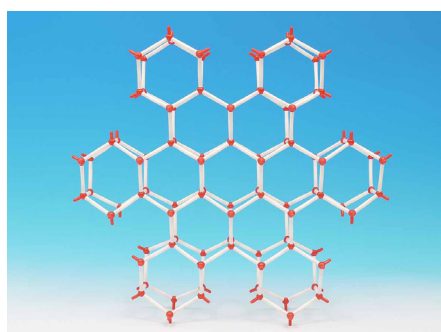


Graphite Model Kit

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



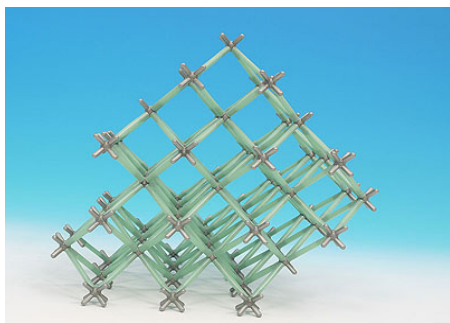
ICE Model Kit

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

ESC54398





IRON Model Kit

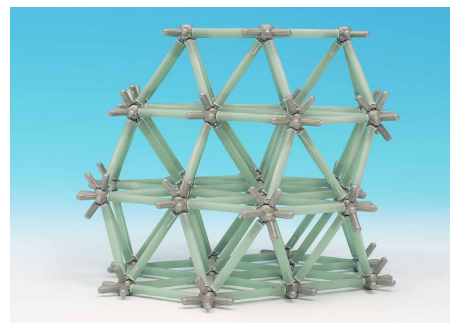
Robust model containing sufficient atoms to see the relationships between structure and physical properties. As easy-to-build, low-cost kits, students learn as they follow the building instructions and model description.

Shape: Irregular

Height: 20cm

71 iron atoms

ESC54399



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

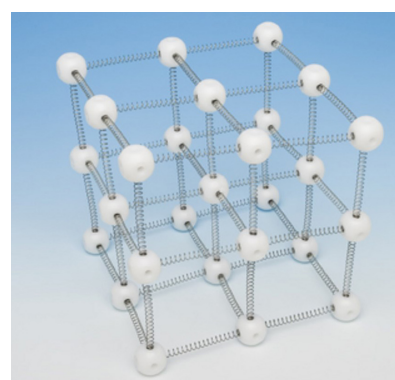
ESC54400



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



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 also 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 x 3 x 3 lattice, connected by 54 springs. Dimensions: 185 x 185 x 185 mm

ESC54408



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



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)

ESC54406





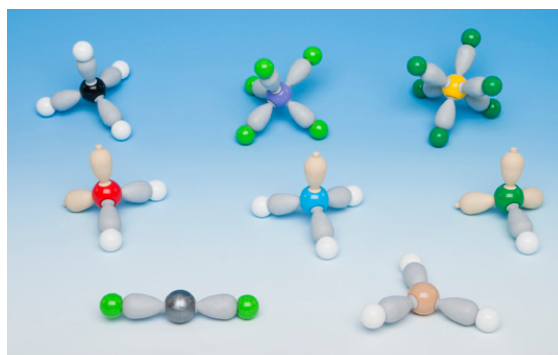
Inorganic Organic Teacher Kit

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 lone pair of electrons lobes.

ESC54403

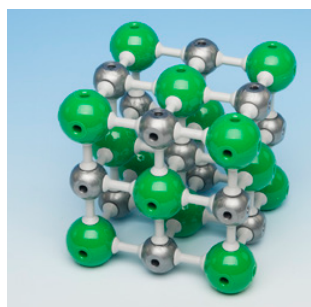


Shapes Of Molecules Electron Repulsion Theory

This 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 NH_4^+ and H_3O^+ 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)

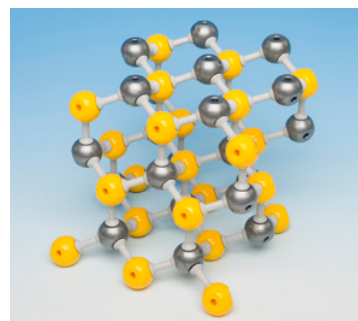
Bonds:

- 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



Zinc Sulphide Model Kit

45 atom self-assembly kit

ESC54410





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 II

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

ESC54450





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



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.

ESC54498

Gas Syringe

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



ESC54502



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



Gas Jar Cylindrical Boro

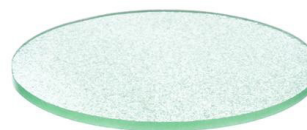
Borosilicate glass with heavy foot and grounded flange. Lid not included.

Height 20 cm, Diameter 5 cm

ESC54499

Height 25 cm, Diameter 5 cm

ESC54500



Gas Jar Cover Dia 6 Cm

6CM Circulars sheet glass, ground one side.

ESC54501





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



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.

ESC54504



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 than the wet filter paper or agar gel methods. Dia. of arms 13 mm, overall width 80 mm, overall height 100 mm

ESC54510



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, 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



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

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

ESC54509





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



Carbon Rod

With terminal, length 140 mm and dia. 15 mm

ESC54515

NEW



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 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.

ESC54578



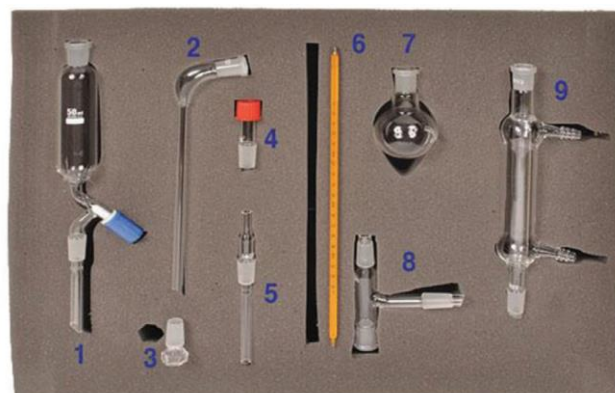
Organic Quick fit Set - 27BU/M - 14/23 Joints

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

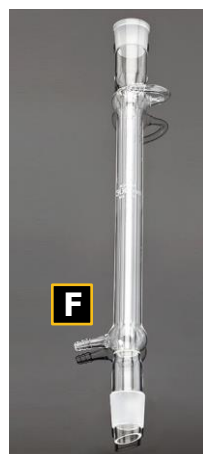
This starter set is designed for organic chemistry labs and is suitable for small-scale procedures up to 30g. All of the ground glass components in this set have a joint size of 14/23. Includes a sturdy storage box with foam insert.

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





A Quick-fit Joint Clips Conical Joints

Conical joint clips Keck pom 14/23 yellow
 Conical joint clips keck pom 19/26 blue
 Conical joint clips keck pom 24/29 green
 Conical joint clips keck pom 29/32 Red

ESC54582
 ESC54583
 ESC54584
 ESC54585

B Quick-fit Reduction Adaptors

Hollow stopper
 14/23 flat bottom
 19/26 flat bottom

ESC54587
 ESC54588

C Quick-fit Reduction Adaptors

Reduction adaptor socket
 14/23 cone 19/26
 14/23 cone 24/29
 19/26 cone 24/29

ESC54591
 ESC54592
 ESC54593

D Quick-fit Expansion Adaptor

Expansion adaptor socket
 19/26 cone 14/23
 24/29 cone 14/23
 24/29 cone 19/26

ESC54597
 ESC54598
 ESC54599

E Quick-fit Condenser Liebig With Screw-thread

Liebig condenser with screw thread
 160mm socket 14/23 cone 14/23
 160mm socket 19/26 cone 19/26
 400mm socket 24/29 cone 24/29

ESC54603
 ESC54604
 ESC54605

F Quick-fit Condenser Liebig

Liebig condenser with glass connector
 160mm socket 14/23 cone 14/23
 400mm socket 24/29 cone 24/29

ESC54609
 ESC54610

H Allihin Condenser

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
 250mm socket 14/23 cone 14/23
 300mm socket 24/29 cone 24/29
 400mm socket 24/29 cone 24/29

ESC54703
 ESC54704
 ESC54705
 ESC54706

I Condenser , Air Coil

R

ESC54612

V Quick-fit Multiple Adapter With 2 Necks

Multiple adapter 2 neck one joint at 45 degree socket
 19/26 cone 19/26

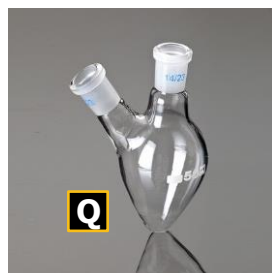
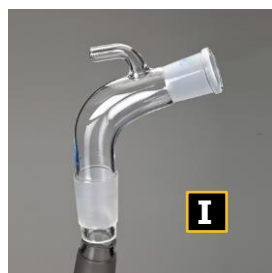
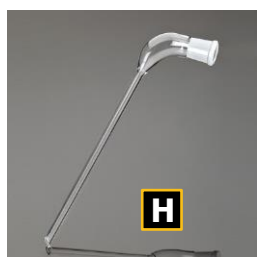
ESC54614

G Quick-fit Receiver Adaptor

Receiver delivery adaptor short stem socket
 14/23 65mm
 19/26 65mm

ESC54618
 ESC54619





H Quick-fit Receiver Adaptor

Receiver delivery adaptor long stem socket
14/23 190mm
19/26 200mm

ESC54622
ESC54623

I Quick-fit Receiver With Vented Bend

Receiver adaptor bend with vent socket
14/23 cone 14/23
9/26 cone 19/26

ESC54626
ESC54627

J Quick-fit Recovery Bend Sloping Adaptor

Recovery bend sloping cone size to fit flask
14/23 cone size to fit condenser 14/23

ESC54630

L Quick-fit Still Head

Still head plain socket 14/23 cone size to fit flask
14/23 cone size to fit condenser 14/23
14/23 cone size to fit flask 19/26

ESC54634
ESC54635

K 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
100ml socket 14/23
250ml socket 14/23
500ml socket 14/23
1000ml socket 14/23
2000ml socket 14/23

ESC54663
ESC54664
ESC54665
ESC54666
ESC54667
ESC54668

Q Quick-fit Flask Pear Shaped With Two 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

S Quick-fit Separating Funnel Conical Squibb Shape

Separating funnel PTFE key stopcock clear glass din Squibb without graduation pp stopper

50ml 19/26
100ml 19/26
250ml 29/32
500ml 29/32
1000ml 29/32

ESC54648
ESC54649
ESC54650
ESC54651
ESC54652





N



O



T



U

NEW



V

N Quick-fit Cone- Screw-thread Adaptor

Simple glands with cap 6 mm cone 14/23

ESC54645

O Quick-fit Flask Round Bottom, Short Neck

Round bottom flask single neck din

25ml socket 14/23

ESC54648

50ml socket 14/23

ESC54649

100ml socket 14/23

ESC54650

100ml socket 19/26

ESC54651

100ml socket 24/29

ESC54652

250ml socket 14/23

ESC54653

250ml socket 19/26

ESC54654

250ml socket 24/29

ESC54655

1000ml socket 24/29

ESC54656

T Quick-fit Dropping Funnel Stem With Cone

Separating funnel PTFE key stopcock clearglass pear shape stem inside cone without graduation pp stopper

50ml socket

ESC54687

19/26 cone 19/26

ESC54688

100ml socket 14/23 cone 14/23

V Separating Funnel pear Shape PTFE

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

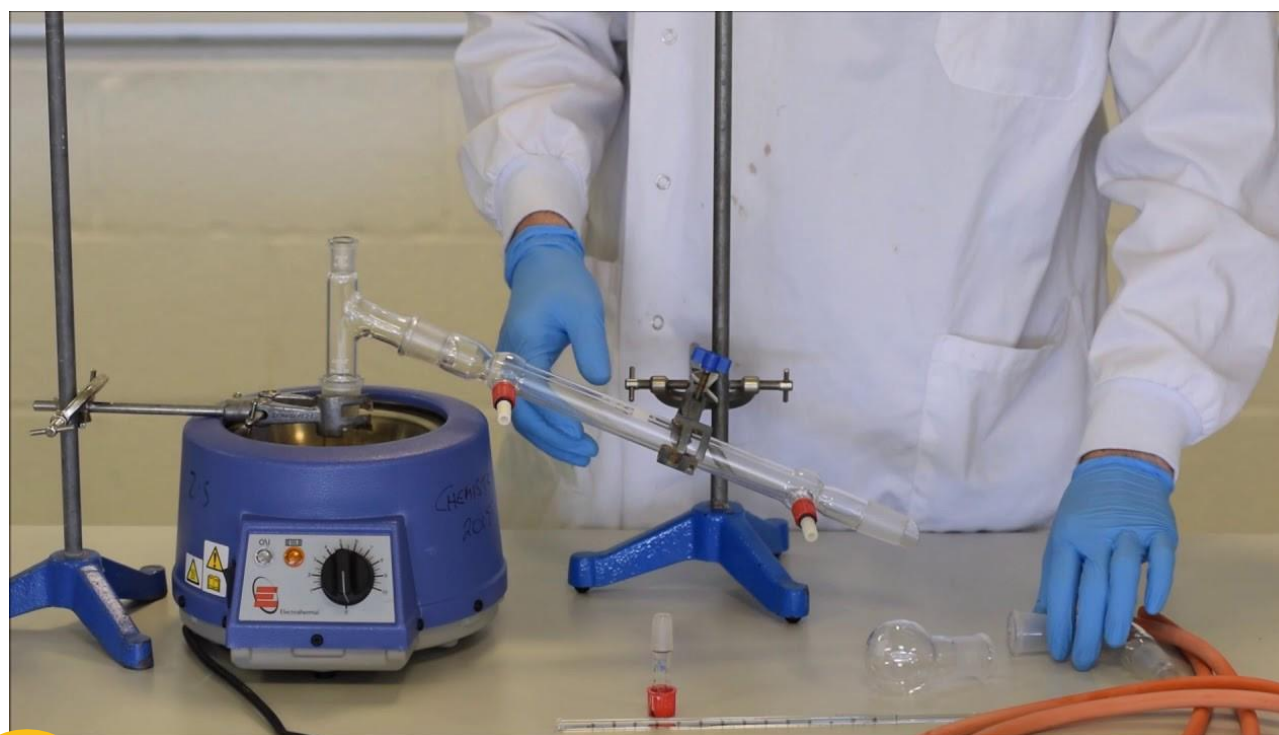
Separating funnel (cylindrical) PTFE needle valve stopcock without graduation pp stopper

50ml socket 14/23 cone 14/23

ESC54692

100ml socket 14/23 cone 14/23

ESC54693





EduScience UK



SAFETY & PROTECTION



Call Us Today

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www.eduscienceuk.com

SAFETY & PROTECTION

- Safety Goggles
- Safety Screen
- Protective Gloves
- Protective Clothing
- Sharp Containers
- First Aid
- Accessories



Safety Goggles

Safet

NEW



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

ESG58737

NEW



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

ESG58738

NEW



Safety Goggles Soft Vinyl Splash PPE - Youth Size

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 Z88.1+ 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, UV380 No 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, UV380 Frameless 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 Spectacle ESX6

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

- ESG58754** Each
- ESG58755** 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 Indirect Ventilation, Adjustable Elastic Strap,CE, ANSI, AS / NZS Certified

- ESG58759** Each
- ESG58760** PK/10



Safety Face Shield

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

- ESG58761** Each
- ESG58762** PK/20



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

Safety Spectacle Hanger

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

ESG58767



Lens Cleaner Spray

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

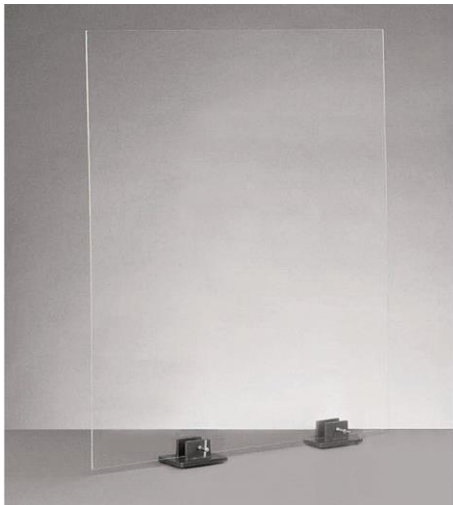
ESG58766



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 x 780 x 23 cm. Supplied with a rack to hold 30 pairs of goggles. Goggles not included. White, baked enamel

ESG58773



Protective Screen

Made of clear perspex material
dimensions : 750 x 600 x 3mm. Need channel base to mount on the table

ESG58768

dimensions : 750 x 600 x 6mm. Need channel base to mount on the table

ESG58772



Fixed Safety Screen

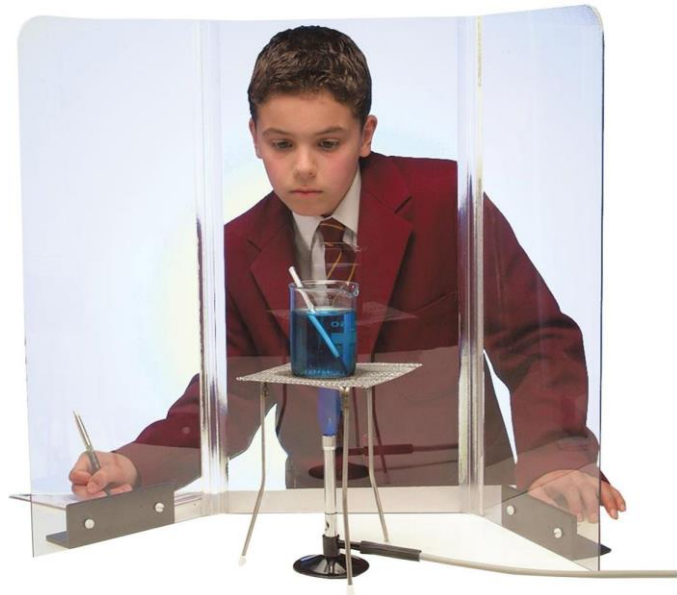
Made of clear perspex material dimensions high 600 mm with 3 fixed angles

ESG58770

Channel Base for protection screen

To use with protective screen

ESG58769



Folding Safety Screen

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

ESG58771





Gloves, Leather Pair

Made of leather used to protect hand against heat

ESG58774

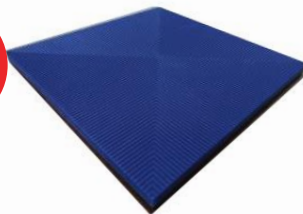


Heat Resistance Gloves Pair

made from high-strength heat resistant & wear resistant & thickened 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°F/800°C.

ESG58775



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.

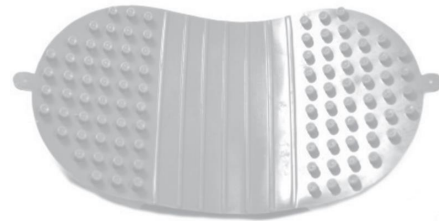
ESG58776



Hand Protectors - Silicon 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.

ESG58778



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 °

C. Pockets for fingers thumb fit every hand size.

ESG58779



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

ESG58776



Protective Gloves

Safety

NEW

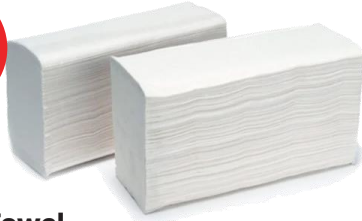


Disinfectant Wipes

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 waste-reducing, 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

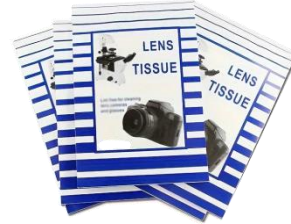
NEW



Paper Towel

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

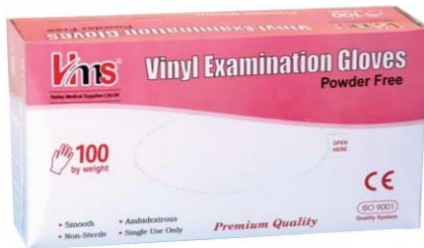
ESG58933



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



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 | ESG58783 | Large |
| ESG58782 | Medium | ESG58784 | X Large |

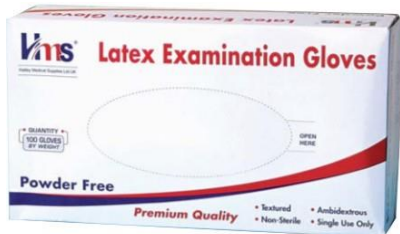
NEW



Rubber Gloves For Chemical Use

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

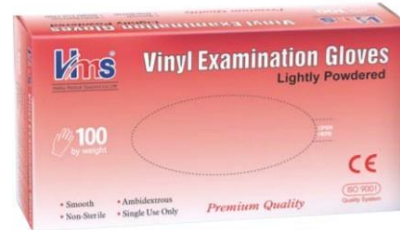
ESG58805



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 |

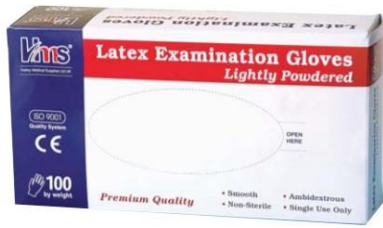


Gloves Disposable Clear Powdered - Pk/ 100 .

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
ESG58809





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



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 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



Mask With Valve Pk/10

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

ESG58842



Surgical Face Mask Ear Loop

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

ESG58844



Face Mask For Dust

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

ESG58848





Sharps Containers

Multi purpose sharp container , provide safe way to dispose contaminated and sharp instruments like blade, needle, scalpel...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

Fire Blanket

Hinged lid for easy extraction

- ESG58880** Size: 1.2 X 1.2M
- ESG58881** Size: 1.2 X 1.8M



Eye Emergency Signs

- ESG58857** Size : 150 x 150mm, s/a Board made of self adhesive vinyl size:150x150mm
- 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• 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

ESG58877



NEW



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 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 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 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

Treating an Asthma Attack
 Asthma in Schools



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

ESG58874



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 dust-proof. 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 dust-proof. 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 , for up to 50 persons and the first aid guide. The kit 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) First aid/burn cream, 0.9 gm. Packs, 10/box
- (2) Latex free elastic bandage
- (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

ESG58872



NEW

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

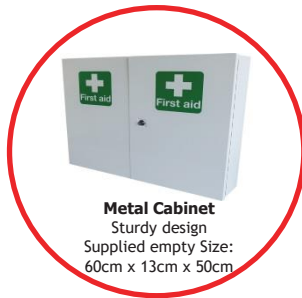


The School First Aid Room contains the essential facilities for a school first aid room, including a first aid room sign, a first aid cabinet and a low level first aid couch designed for use with children. The package provides 10% cost savings compared to purchasing each item individually.

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

ESG59020





Chemical spill kit

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

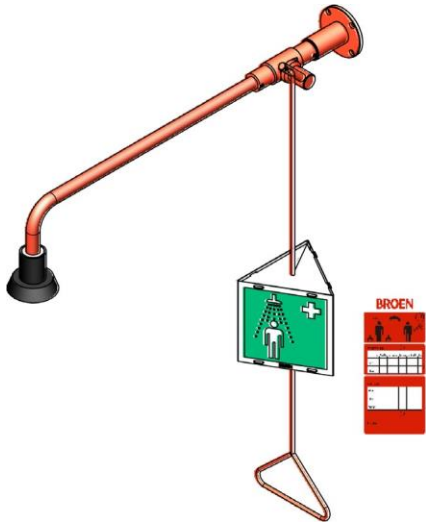
Durable laminated poster with full colour illustrations User friendly text and clear step-by-step instructions for workplace first aid Ensure your employees are ready in an emergency

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

Poster Dimensions: 60cm x 43cm (A2)

ESG58913

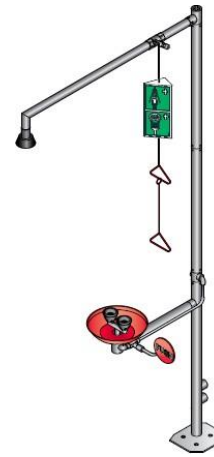




Emergency Shower Wall Mounted

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

ESG58886



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
- Well-balanced construction
- Better spray pattern

RELIABILITY

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

ESG58890

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

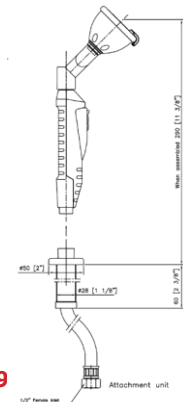
- Improved trigger lock
- Improved activation of the shower

OPERATION

- Stay-open dust cap
- Light weight
- Well-balanced construction
- Better spray pattern

RELIABILITY

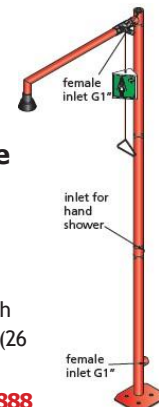
- Easy-to-clean spray head
- Anti-lime scale design and material choice
- Improved functionality
- Longer lifetime



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 l/Min). Min. Working pressure: 1.5 bar.



ESG58888



Hazard tape :

Hazard warning tape. 66 meters long and 25mm wide

- ESG58897** Irritant tape 66m
- ESG58898** Biohazard Tape
- 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



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



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



Cotton Wool Absorbent

100% cotton wool, hygienic purity with high absorbent capacity

ESG58916

Cotton Wool Non Absorbent

ESG58924



NEW



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 artificial blood, teaching guide, and hard carry case

ESG58886



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 pulse;
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/double
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 training

ESO67139



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 pulse;
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: approximately 4 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/double
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



Half-body CPR Training Manikin

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 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
6. Power: battery

ESO64729



NEW



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



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



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 rise;
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



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

Safety



NEW



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 initial 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.

ESG59015



Basic Casualty Simulation Kit

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

ESG59016

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



NEW

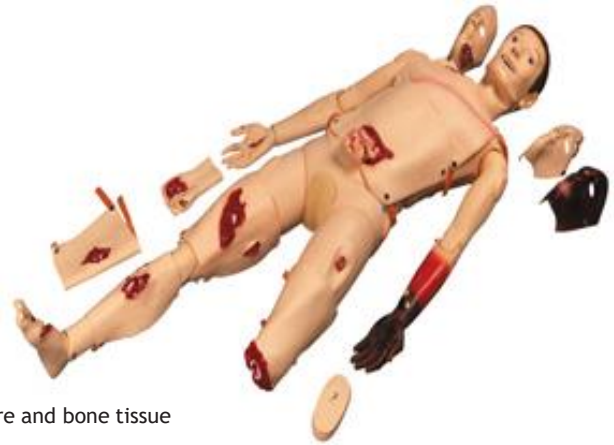
ADVANCE TRAUMA SIMULATOR

Manikin Features:

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

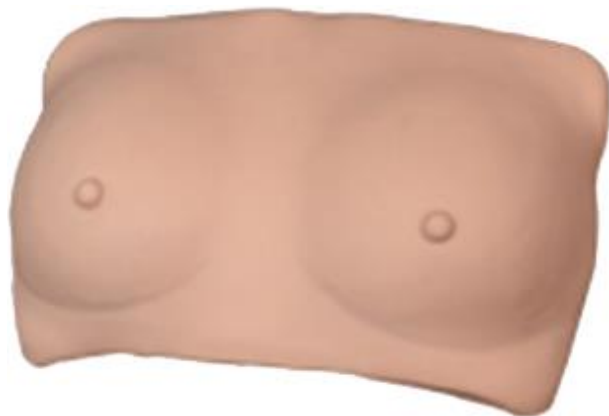
Trauma Features:

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



Safety

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:

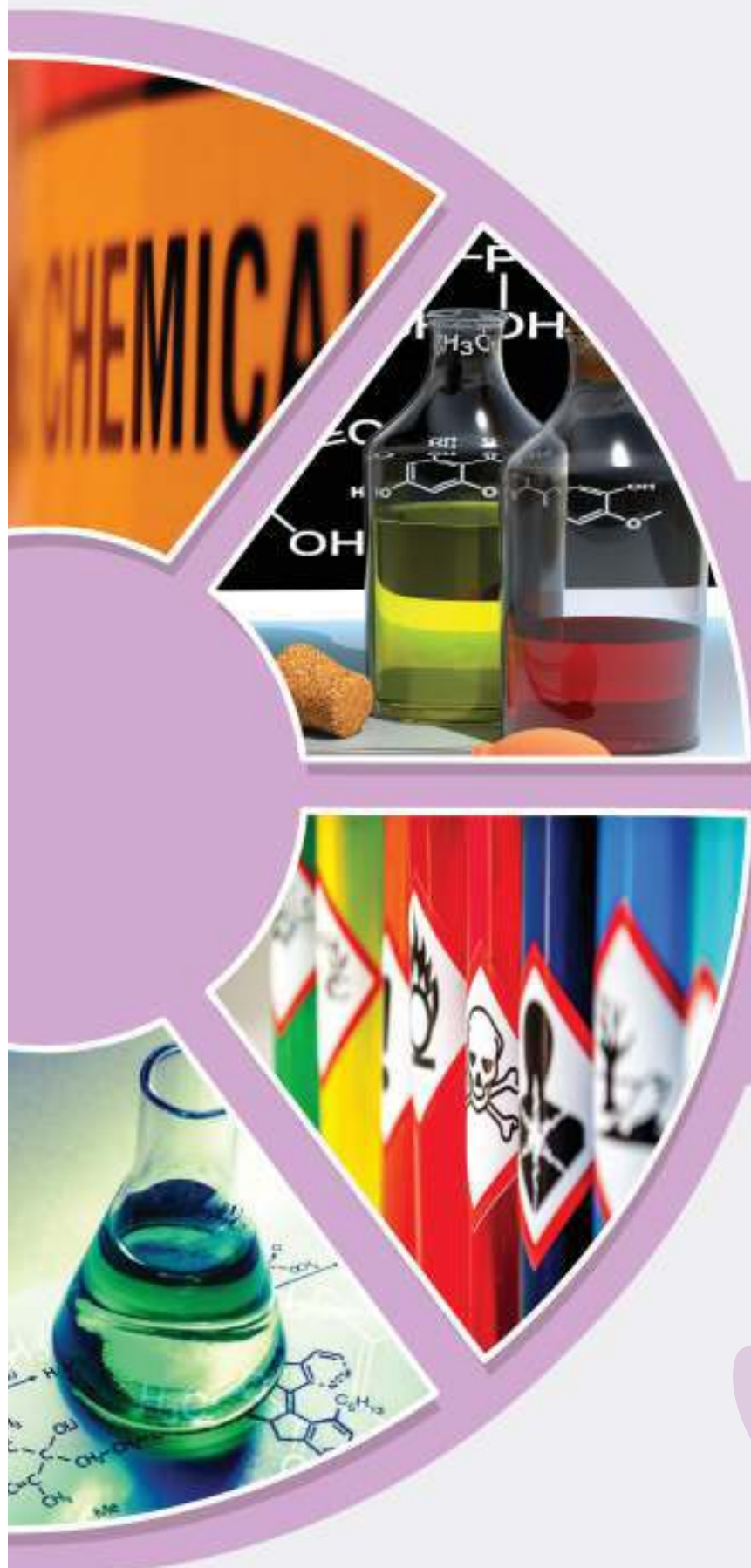
1. This model can be used to exercise mammary tumors palpation skill.
2. In order to facilitate training process, we implant benign tumors and malignant tumors into the mammary gland.
3. Basing on various position, size, texture, the students can identify the tumor is benign or malignant.

ESO64759





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- 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 if a surcharge is applicable. Our next day delivery service is not available when shipping ADR chemicals.

What's New?

From June 2015 the restrictions on some chemicals have changed, namely the flammable 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 compliance 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.

POTASSIUM METAL IN LIQUID PARAFFIN (Potass m)			
1	K = 39.1g/mol		2
3	UN Class: 4.3/UN2257 PG-1		4
6	Cas No.: 7440-09-7	10	EC No.: 231-119-8
7	Hazard: H260 H314 EUH014		5
8	Precaution: P223 P231+P232 P280 P305+P351+P338		12
9	Cat No.	Type	Info.
	CHE291535	98%	SURCHARGE

1 Product Name

2 Alternative Name(s)

3 Chemical Formula

4 GHS Pictograms

These are located on the chemical bottle.

5 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.

6 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 |

7 Cas No.

Chemical identifier as defined by the American Chemical Society

8 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 & Precautionary Statement numbers.

9 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

12 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'

13 Catalogue No.

14 Type


















































15 Assay







































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.



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

BOX LABEL		UN CLASS	DESCRIPTION OF DANGER	CATEGORY	GHS PICTOGRAM (On Bottle)
ADR	LQ (Limited Quantity)				
		5.2	Organic peroxides	B,C,D,E,F	
		6.1	Acute toxicity (oral, dermal, inhalation)	1, 2, 3	
		6.1	Acute toxicity (oral, dermal, inhalation)	4	
		6.1	Skin irritation	2	
		8	Corrosive to metals	1	
		8	Skin corrosion	1A, 1B, 1C	
		8	Serious eye damage	1	
		n/a	Eye irritation	2	
		n/a	Skin sensation	1	
		n/a	Specific Target Organ Toxicity - Single exposure	3	
		n/a	Respiratory sensitisation	1	
		n/a	Germ cell mutagenicity	1A, 1B, 2	
		n/a	Carcinogenicity	1A, 1B, 2	
		n/a	Reproductive toxicity	1A, 1B, 2	
		n/a	Specific Target Organ Toxicity - Single exposure	1, 2	
		n/a	Aspiration hazard	1	
		n/a	Environmentally hazardous	1, 2, 3	



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 specific effect 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. Keep 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 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 not 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/flammable resistant/retardant clothing.
P284	Wear respiratory protection.
P285	In case of inadequate ventilation wear respiratory protection.





PRECAUTIONARY STATEMENTS - Response	
P301	IF SWALLOWED:
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P301+P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P301+ IF	SWALLOWED: rinse mouth. Do NOT induce vomiting.
P330+P331	
P302	IF ON SKIN:
P302+P334	IF ON SKIN: Immerse in cool water/wrap in wet bandages.
P302+P350	IF ON SKIN: Gently wash with plenty of soap and water.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P303	IF ON SKIN (or hair):
P303+	IF ON SKIN (or hair): Remove/Take off immediately all
P361+P353	contaminated clothing. Rinse skin with water/shower.
P304	IF INHALED:
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 air and keep at rest in a position comfortable for breathing.
P305	IF IN EYES:
P305+	
P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P306	IF ON CLOTHING:
P306+P360	IF ON CLOTHING: rinse immediately contaminated clothing and skin with plenty of water before removing clothes.
P307	IF exposed:
P307+P311	IF exposed: Call a POISON CENTER or doctor/physician.
P308	IF exposed or concerned:
P308+P313	IF exposed or concerned: Get medical advice/attention.
P309	IF exposed or if you feel unwell:
P309+P311	IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.
P310	Immediately call a POISON CENTER or doctor/physician.
P311	Call a POISON CENTER or doctor/physician.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P313	Get medical advice/attention.
P314	Get medical advice/attention if you feel unwell.
P315	Get immediate medical advice/attention.
P320	Specific treatment is urgent (see ... on this label).
P321	Specific treatment (see ... on this label).
P322	Specific measures (see ... on this label).
P330	Rinse mouth.
P331	Do NOT induce vomiting.
P332	If skin irritation occurs:
P332+P313	If skin irritation occurs: Get medical advice/attention.
P333	If skin irritation or rash occurs:
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P334	Immerse in cool water/wrap in wet bandages.
P335	Brush off loose particles from skin.



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 not 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:
P370+P376	In case of fire: Stop leak if safe to do so.
P370+P378	In case of fire: Use ... for extinction.
P370+P380	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.
P380+P375	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.
P377	Leaking 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 not 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 ...







ACACIA POWDER (GUM ARABIC)				
N/A 				
UN Class: N/A		EC No.: 232-519-5		Danger
Cas No.: 9000-01-5		Index No.: Not listed		
Hazard: H318 Precaution: P280 P305+P351+P338				
Cat No.	Grade	Assay	Info.	Per
ESC54794		99%		100g





ACETALDEHYDE (ETHANAL)				
CH ₃ CHO = 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		98%	SURCHARGE	500 ml




ACETAMIDE (ETHANAMIDE)				
CH ₃ . CO . NH ₂ = 59.07g/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		97%		100g




ACETANILIDE (N-PHENYLACETAMIDE)				
C ₆ H 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		98%		100g




ACETIC ACID GLACIAL (ETHANOIC ACID)				
CH ₃ COOH = 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		99.5%		1L

ACETIC ACID 1.0M (1.0N) (ETHANOIC ACID)				
UN Class: N/A				
Cas No.: 64-19-7		EC No.: 200-580-7		Danger
		Index No.: 607-002-00-6		
Hazard: Not considered hazardous Precaution: No additional precautions required				
Cat No.	Grade	Assay	Info.	Per
ESC54805		98%	Std solution	2.5L

ACETIC ANHYDRIDE (ETHANOIC ANHYDRIDE)				
(CH ₃ CO) ₂ O = 102.09g/mol    49°C				
UN Class: 8(3) /UN1715 PG-II		EC No.: 203-564-8		Danger
Cas No.: 108-24-7		Index No.: 607-008-00-9		
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		97%		500ml

ACETONE (PROPANONE)				
(CH ₃) ₂ CO = 58.08g/mol   -18°C				
UN Class: 3 /UN1090 PG-II		EC No.: 200-662-2		Danger
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	Info.	Per
ESC54807		99%		2.5L

ACETONITRILE (CYANOMETHANE)				
CH ₃ CN = 41.05g/mol   -2°C				
UN Class: 3 /UN1648 PG-II		EC No.: 200-835-2		Danger
Cas No.: 75-05-8		Index No.: 608-001-00-3		
Hazard: H225 H319 H302 H312 H332 Precaution: P210 P280 P305+P351+P338 P309+P310				
Cat No.	Grade	Assay	Info.	Per
ESC54810		98%		2.5L

ACETYL CHLORIDE (ETHANOYL CHLORIDE)				
CH ₃ COCl = 78.5g/mol   -4°C				
UN Class: 3(8) /UN1717 PG-II		EC No.: 200-865-6		Danger
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		98%		500ml



O-ACETYSALICYLIC 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		99.5%		100g

L-ALANINE ((S)-2-AMINOPROPIONIC ACID) $CH_3CH(NH_2)COOH = 89.09g/mol$

UN Class: N/A **EC No.:** 200-273-8
Cas No.: 56-41-7 **Index No.:** Not listed

Hazard: Not considered hazardous
Precaution: No additional precautions required

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

ADENOSINE-5-TRIPHOSPHORIC ACID (A.T.P.) $C_{10}H_{14}N_5Na_2O_{13}P_3 \cdot 3H_2O = 605.19g/mol$

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		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		Protein > 80%		250g

ADIPIIC ACID (HEXANEDIOIC ACID) $HOOC(CH_2)_4COOH = 146.14g/mol$ 

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		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		> 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		> 97%		100g
ESC54819		> 97%		250g

ALUMINIUM METAL - FOIL 0.1MM

Al = 26.98g/mol

UN Class: N/A **EC No.:** 231-072-3
Cas No.: 7429-90-5 **Index No.:** Not listed

Hazard: Not considered hazardous
Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC54834		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		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		98%	Fine	250g
ESC54836		98%	Fine	500g



ALUMINIUM AMMONIUM SULPHATE (AMMONIUM ALUM) $\text{AlNH}_4(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O} = 453.33\text{g/mol}$ 

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		98%		500g

ALUMINIUM CHLORIDE ANHYDROUS (TRICHLOROALUMINIUM) $\text{AlCl}_3 = 133.34\text{g/mol}$ 

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		98%		500g

ALUMINIUM CHLORIDE 6-WATER (TRICHLOROALUMANE) $\text{AlCl}_3 \cdot 6\text{H}_2\text{O} = 241.43\text{g/mol}$ 

UN Class: 8 /UN3260 PG-III **EC 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		95%		100g

ALUMINIUM HYDROXIDE (ALUMINIC ACID) $\text{Al}(\text{OH})_3 = 78\text{g/mol}$ 

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		95%		500g

ALUMINIUM NITRATE 9-WATER $\text{Al}(\text{NO}_3)_3 \cdot 9\text{H}_2\text{O} = 375.13\text{g/mol}$ 

UN Class: 5.1 /UN1438 PG-III **EC No.:** 236-751-8 **Warning**
Cas No.: 7784-27-2 **Index No.:** Not listed
Hazard: H272 H315 H319
Precaution: P220 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC54837		95%		500g

ALUMINIUM OXIDE CALCINED (ALUMINA) $\text{Al}_2\text{O}_3 = 101.96\text{g/mol}$

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		97%		500g

ALUMINIUM POTASSIUM SULPHATE 12-WATER (POTASH ALUM) $\text{AlK}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O} = 474.39\text{g/mol}$

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		99%		500g

ALUMINIUM SULPHATE 16-WATER (ALUNOGENITE) $\text{Al}_2(\text{SO}_4)_3 \cdot 16\text{H}_2\text{O} = 630.4\text{g/mol}$ 

UN Class: N/A **EC No.:** 233-135-0 **Danger**
Cas No.: 16828-11-8 **Index No.:** Not listed
Hazard: H318
Precaution: P280 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC54843		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-Tyrosine, L-Valine - 1g of each included in set

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		N/A	17 Amino acids	SET

AMMONIA SOLUTION $\text{NH}_4\text{OH} = 35.05\text{g/mol}$ 

UN Class: 8 /UN2672 PG-III **EC No.:** 215-647-6 **Danger**
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		33-35 NH_3		1L
ESC54848		33-35 NH_3		2.5L



AMMONIUM ACETATE (AMMONIUM ETHANOATE) $\text{CH}_3\text{COONH}_4 = 77.08\text{g/mol}$

UN Class: N/A EC No.: 211-162-9
 Cas No.: 7664-93-9 Index No.: Not listed
 Hazard: Not considered hazardous
 Precaution: Not considered hazardous
 Notes: pH of solution 6.5-7.5

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

AMMONIUM HYDROGEN CARBONATE (AMMONIUM BICARBONATE) $\text{NH}_4\text{HCO}_3 = 79.06\text{g/mol}$ 

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		98.5%		500g

AMMONIUM BROMIDE (HYDROBROMIC ACID MONOAMMONIATE) $\text{NH}_4\text{Br} = 97.94\text{g/mol}$ 

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		99%		500g

DI-AMMONIUM HYDROGEN PHOSPHATE $(\text{NH}_4)_2\text{HPO}_4 = 132.06\text{g/mol}$ 

UN Class: N/A EC No.: 231-987-8 Warning
 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		98%		500g

AMMONIUM CARBONATE $(\text{NH}_4)_2\text{CO}_3 = 96.09\text{g/mol}$ 

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		98%		500g

AMMONIUM IRON (II) SULPHATE 6-WATER $(\text{NH}_4)_2\text{Fe}(\text{SO}_4)_2 \cdot 6\text{H}_2\text{O} = 392.14\text{g/mol}$ 

UN Class: N/A EC No.: 233-151-8 Warning
 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		98%		500g

AMMONIUM CHLORIDE (SAL AMMONIAC) $\text{NH}_4\text{Cl} = 53.49\text{g/mol}$ 

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		99%		500g

AMMONIUM IRON (III) CITRATE (AMMONIUM FERRIC CITRATE) $\text{C}_6\text{H}_8\text{O}_7 \cdot x\text{Fe}_3 \cdot y\text{NH}_3$

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		98%	Brown	15.95	100g

AMMONIUM DICHROMATE $(\text{NH}_4)_2\text{Cr}_2\text{O}_7 = 252.06\text{g/mol}$ 

UN Class: 5.1 / UN1439 PG-II EC No.: 232-143-1 Danger
 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		33-35 NH ₃		500g

AMMONIUM IRON (III) CITRATE - GREEN $\text{C}_6\text{H}_8\text{O}_7 \cdot x\text{Fe}_3 \cdot y\text{NH}_3$

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.	Per
ESC54875		98%	Green	100g



AMMONIUM IRON (III) SULPHATE 12-WATER $\text{NH}_4\text{Fe}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O} = 482.19\text{g/mol}$ 

UN Class: N/A **EC No.:** 233-382-4 **Warning**
Cas No.: 7783-83-7 **Index No.:** Not listed
Hazard: H315 H319
Precaution: P305+P351+P338

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

ISO-AMYL ACETATE (ISO-PENTYL ACETATE) $\text{CH}_3\text{COOC}_5\text{H}_{11} = 130.18\text{g/mol}$ 

24°C

UN Class: 3 /UN1104 PG-III **EC No.:** 211-047-3 **Warning**
Cas No.: 628-63-7 **Index No.:** 607-130-00-2
Hazard: H226 EUH066
Precaution: P210 P243 P280

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

AMMONIUM METAVANADATE (AMMONIUM TRIOXOVANADATE) $\text{NH}_4\text{VO}_3 = 116.98\text{g/mol}$ 

UN Class: 6.1 /UN2859 PG-II **EC 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		98%		15.95	50g

AMMONIUM PEROXODISULPHATE (AMMONIUM PERSULPHATE) $(\text{NH}_4)_2\text{S}_2\text{O}_8 = 228.2\text{g/mol}$ 

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		98%		500g

AMMONIUM MOLYBDATE (VI) 4-WATER $(\text{NH}_4)_6\text{Mo}_7\text{O}_{24} \cdot 4\text{H}_2\text{O} = 1235.86\text{g/mol}$ 

UN Class: N/A **EC No.:** 234-722-4 **Warning**
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		98%		500g

AMMONIUM SULPHATE $(\text{NH}_4)_2\text{SO}_4 = 132.14\text{g/mol}$

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	Info.	Per
ESC54889		98.5%		500g

AMMONIUM NICKEL (II) SULPHATE 6-WATER (NICKEL AMMONIUM SULPHATE) $(\text{NH}_4)_2\text{Ni}(\text{SO}_4)_2 \cdot 6\text{H}_2\text{O} = 394.99\text{g/mol}$ 

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	Assay	Info.	Per
ESC54884		98%		500g

AMMONIUM THIOCYANATE $\text{NH}_4\text{SCN} = 76.12\text{g/mol}$ 

UN Class: N/A **EC No.:** 217-175-6 **Warning**
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		96%		500g

AMMONIUM NITRATE $\text{NH}_4\text{NO}_3 = 80.04\text{g/mol}$ 

UN Class: 5.1 /UN2067 PG-III **EC No.:** 229-347-8 **Warning**
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		98%		500g



AMMONIUM OXALATE 1-WATER (OXALIC ACID DIAMMONIUM SALT) $(\text{COONH}_4)_2 \cdot \text{H}_2\text{O} = 142.11\text{g/mol}$ 






UN Class: 6.1 /UN2811 PG-III **EC No.:** 214-202-3 **Warning**
Cas No.: 6009-70-7 **Index No.:** 607-007-00-3
Hazard: H312 H302
Precaution: P261 P302+P352 P304+P340+P312


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









ISO-AMYL ALCOHOL (3-METHYL BUTAN-1-OL)				
$C_5H_{11}OH = 88.15g/mol$  				
UN Class: 3 /UN1105 PG-III		EC No.: 204-633-5		Warning
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		96%		2.5L



AQUADAG (CARBON COLLOIDAL)				
N/A 				
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				
Notes: 20% suspension of colloidal in graphite				
Cat No.	Grade	Assay	Info.	Per
ESC54899		N/A		100g


ANILINE (PHENYLAMINE)				
$C_6H_5NH_2 = 93.13g/mol$    				
UN Class: 6.1 /UN1547 PG-II		EC No.: 200-539-3		Danger
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		98%		1L


L-ARGININE ((S)-2-AMINO-5-GUANIDINOPENTANOIC ACID)				
$H_2NC(=NH)NH(CH_2)_3CH(NH_2CO_2H) = 174.2g/mol$				
UN Class: N/A		EC No.: 200-811-1		
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		98%		100g


ANILINE HYDROCHLORIDE (PHENYLAMMONIUM CHLORIDE)				
$C_6H_5NH_2 \cdot HCl = 129.59g/mol$    				
UN Class: 6.1 /UN1548 PG-III		EC No.: 205-519-8		Danger
Cas No.: 142-04-1		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		98%		100g

L-ASCORBIC ACID (VITAMIN C)				
$C_6H_8O_6 = 176.13g/mol$				
UN Class: N/A		EC No.: 200-066-2		
Cas No.: 50-81-7		Index No.: Not listed		
Hazard: Not considered hazardous				
Precaution: No additional precautions required				
Cat No.	Grade	Assay	Info.	Per
ESC55468		99%		500g

ANTHRANILIC ACID (2-AMINO BENZOIC 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		97%		100g

DL - ASPARTIC ACID ((2S)-2-AMINO BUTANEDIOIC ACID)				
$HOOCCH_2CH(NH_2)COOH = 133.1g/mol$				
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		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				
Cat No.	Grade	Assay	Info.	Per
ESC54898		97%		250g

L-ASPARTIC ACID ((S)-AMINO BUTANEDIOIC ACID)					
$NH_2CH(COOH) \cdot CH_2 \cdot COOH = 133.1g/mol$					
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		99%		15.95	25g



BARFOED'S REAGENT $\text{NH}_2\text{CH}(\text{COOH}) \cdot \text{CH}_2 \cdot \text{COOH} = 133.1\text{g/mol}$ 

UN Class: N/A EC No.: N/A Warning
 Cas No.: N/A Index No.: Not listed
 Hazard: H411
 Precaution: P273
 Notes: Reagent testing for the presence of monosaccharide

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

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		98%		10g

BARIUM CARBONATE $\text{BaCO}_2 = 197.34\text{g/mol}$ 

UN Class: 6.1 /UN1564 PG-III EC No.: 208-167-3 Warning
 Cas No.: 513-77-9 Index No.: 056-003-00-2
 Hazard: H302
 Precaution: P301+P312

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

BARIUM CHLORIDE 2-WATER $\text{BaCl}_2 \cdot 2\text{H}_2\text{O} = 244.26\text{g/mol}$

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		99%		250g
ESC54908		99%		500g

BARIUM HYDROXIDE 8-WATER $\text{Ba}(\text{OH})_2 \cdot 8\text{H}_2\text{O} = 315.46\text{g/mol}$ 

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		96%		500g

BARIUM PEROXIDE $\text{BaO}_2 = 169.34\text{g/mol}$ 

UN Class: 5.1(6.1) /UN1449 PG-II EC No.: 215-128-4 Danger
 Cas No.: 1304-29-6 Index No.: 056-001-00-1
 Hazard: H272 H302 H332
 Precaution: P220

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

BARIUM NITRATE $\text{Ba}(\text{NO}_3)_2 = 261.34\text{g/mol}$ 

UN Class: 5.1(6.1) /UN1446 PG-II EC No.: 233-020-5 Danger
 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		98%		250g

BARIUM OXIDE

BaO = 153.33g/mol



UN Class: 6.1 /UN1884 PG-III EC No.: 215-127-9 Danger
 Cas No.: 1304-28-5 Index No.: Not listed
 Hazard: H301 H314 H332
 Precaution: P280 P301+P310 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC54915		97%		50g

BARIUM SULPHATE PRECIPITATED $\text{BaSO}_4 = 233.39\text{g/mol}$

UN Class: N/A EC No.: 231-784-4
 Cas No.: 7727-43-7 Index No.: Not listed
 Hazard: Not considered hazardous
 Precaution: No additional precautions required

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



BEEWAX (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		> 97%		500g







BENZOPHENONE (DIPHENYL KETONE)				
$C_{15}H_{12}O$ = 182.22g/mol 				
UN Class: N/A		EC No.: 204-337-6		Warning
Cas No.: 119-61-9		Index No.: Not listed		
Hazard: H410 Precaution: P273				
Cat No.	Grade	Assay	Info.	Per
ESC54931		99%		250ml

BENZOIC ACID (BENZENECARBOXYLIC ACID)				
C_6H_5COOH = 122.12g/mol 				
UN Class: N/A		EC No.: 200-618-2		Warning
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		98.5%		500g



BENEDICT'S SOLUTION QUALITATIVE				
N/A 				
UN Class: 9 /UN3082 PG-III		EC No.: N/A		Warning
Cas No.: N/A		Index No.: Not listed		
Hazard: H412 Precaution: P273 Notes: For determination of reducing sugars				
Cat No.	Grade	Assay	Info.	Per
ESC54923		N/A		500ml



BENZOYL CHLORIDE				
C_6H_5COCl = 140.57g/mol 				
UN Class: 8 /UN1736 PG-II		EC No.: 202-710-8		Danger
Cas No.: 98-88-4		Index No.: 607-012-00-0		
Hazard: H314 H302 H312 H332 Precaution: P280 P305+P351+P338 P310				
Cat No.	Grade	Assay	Info.	Per
ESC54933		99%		1L


BENZALDEHYDE				
$C_6H_5 \cdot CHO$ = 106.12g/mol 				
UN Class: 9 /UN1990 PG-III		EC No.: 202-860-4		Warning
Cas No.: 100-52-7		Index No.: 605-012-00-5		
Hazard: H302 Precaution: P301+P312 Notes: Distillation range 175-183°C				
Cat No.	Grade	Assay	Info.	Per
ESC54926		98%		500ml

BENZYL ALCOHOL (BENZENEMETHANOL)				
$C_6H_5CH_2OH$ = 108.14g/mol 				
UN Class: 9 /UN3334 PG-III		EC No.: 202-859-9		Warning
Cas No.: 100-51-6		Index No.: 603-057-00-5		
Hazard: H302 H332 Precaution: P301+P312				
Cat No.	Grade	Assay	Info.	Per
ESC54936		99%		1L

BENZENE-1,2-DICARBOXYLIC ACID SEE PHTHALIC ACID	
BENZENE-1,2-DICARBOXYLIC ANHYDRIDE	SEE PHTHALIC ANHYDRIDE
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)				
$C_6H_5CH_2Cl$ = 126.58g/mol 				
UN Class: 6.1 /UN1738 PG-II		EC No.: 202-853-6		Danger
Cas No.: 100-44-7		Index No.: 602-037-00-3		
Hazard: H350 H331 H302 H373 H335 H315 H318 Precaution: P201 P261 P280 P305+P351+P338 P308+P313 Notes: Distillation range 175-180°C				
Cat No.	Grade	Assay	Info.	Per
ESC54939		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		98%		25g

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		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
ESC54944		>65%		25g

BISMUTH (III) CHLORIDE (BISMUTH TRICHLORIDE)

$\text{BiCl}_3 = 315.34\text{g/mol}$

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

Hazard: H315 H319
 Precaution: P305+P351+P338 P302+P352

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

BISMUTH NITRATE 5-WATER

$\text{Bi}(\text{NO}_3)_3 \cdot 5\text{H}_2\text{O} = 485.07\text{g/mol}$

UN Class: 5.1 /UN1477 PG-II EC No.: 233-791-8 Danger
 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		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		N/A		1L

BLEACHING POWDER SEE CALCIUM HYPOCHLORITE

BORAX SEE DISODIUM TETRABORATE

BORIC ACID CRYSTALS (TRIOXYBORIC (III) ACID)

$\text{H}_3\text{BO}_3 = 61.83\text{g/mol}$

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		99.5%		500g

BORIC ACID POWDER (TRIOXYBORIC (III) ACID)

$\text{H}_3\text{BO}_3 = 61.83\text{g/mol}$

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
ESC54951		99.5%		500g

BROMINE

$\text{Br}_2 = 159.81\text{g/mol}$

UN Class: 8(6.1) /UN1744 PG-I EC No.: 231-778-1 Danger
 Cas No.: 7726-95-6 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		98%	SURCHARGE	1L

BROMINE WATER 0.2M

N/A

UN Class: 8(6.1) /UN1744 PG-I EC No.: 231-778-1 Danger
 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		0.2M	SURCHARGE	1L

BROMOBENZENE

$\text{C}_6\text{H}_5 \cdot \text{Br} = 157.01\text{g/mol}$

UN Class: 3 /UN2514 PG-III EC No.: 203-623-8 Warning
 Cas No.: 108-86-1 Index No.: 602-060-00-9

Hazard: H226 H315 H411
 Precaution: P210 P273

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



1-BROMOBUTANE (N-BUTYL BROMIDE) $\text{CH}_3 \cdot \text{CH}_2 \cdot \text{CH}_2 \cdot \text{CH}_2 \cdot \text{BR} = 137.02\text{g/mol}$ 

UN Class: 3 /UN1126 PG-II **EC No.:** 203-691-9 **Danger**
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		>97%		1L

2-BROMOBUTANE (SEC-BUTYL BROMIDE) $\text{CH}_3 \cdot \text{CHBR} \cdot \text{CH}_2 \cdot \text{CH}_3 = 137.02\text{g/mol}$ 

UN Class: 3 /UN2339 PG-II **EC No.:** 201-140-7 **Danger**
Cas No.: 78-76-2 **Index No.:** Not listed
Hazard: H226 H412
Precaution: P210 P243 P273 P280

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

BROMOCRESOL GREEN $\text{C}_{21}\text{H}_{14}\text{Br}_4\text{O}_5\text{S} = 698.01\text{g/mol}$

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		>97%	Powder	25g

BROMOCRESOL PURPLE $\text{C}_{21}\text{H}_{16}\text{Br}_2\text{O}_5\text{S} = 540.22\text{g/mol}$ 

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		>97%	pH 5.2-6.8	25g

1-BROMOETHANE (ETHYL BROMIDE) $\text{C}_2\text{H}_5\text{Br} = 108.97\text{g/mol}$ 

UN Class: 6.1 /UN1891 PG-II **EC No.:** 200-825-8 **Danger**
Cas No.: 74-96-4 **Index No.:** 602-055-00-1
Hazard: H225 H351 H332 H302
Precaution: P201 P210 P281 P301+P312 P304+P340 P309+P311

Cat No.	Grade	Assay	Info.	Per
ESC54763		>97%		500ml

2-BROMO-2-METHYLPROPANE (TERT-BUTYL BROMIDE) $(\text{CH}_3)_3\text{CBr} = 137.02\text{g/mol}$ 

UN Class: 3 /UN2342 PG-II **EC No.:** 208-065-9 **Danger**
Cas No.: 507-19-7 **Index No.:** Not listed
Hazard: H225
Precaution: P210

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

BROMO PHENOL BLUE $\text{C}_{19}\text{H}_{10}\text{Br}_4\text{O}_5\text{S} = 669.96\text{g/mol}$ 

UN Class: N/A **EC No.:** 204-086-2 **Warning**
Cas No.: 115-39-9 **Index No.:** Not listed
Hazard: H332 H312 H319
Precaution: P261 P280 P305+P351+P338 P264
Notes: pH 2.8-4.6

Cat No.	Grade	Assay	Info.	Per
ESC54957		>97%	Powder	25g

BROMOTHYMOL BLUE $\text{C}_{27}\text{H}_{28}\text{Br}_2\text{O}_5\text{S} = 624.38\text{g/mol}$

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		>97%	Powder	25g

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			pH2 (Citrate)	500ml
ESC54982			pH4 (Phthalate)	500ml
ESC54985			pH6 (Acetate)	500ml
ESC54988			pH7 (Phthalate)	500ml
ESC54991			pH9.2 (Phthalate)	500ml
ESC54974			pH10 (Phthalate)	500ml



COLOURED BUFFER SOLUTION

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

EC 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
			pH7 Green	500ml
			pH10 Blue	500ml

BUTANAL (N-BUTYRALDEHYDE)

$\text{CH}_3\text{CH}_2\text{CH}_2\text{CHO} = 72.11\text{g/mol}$



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		98%		100ml
ESC55001		98%		500ml

BUTANEDIOIC ACID SEE SUCCINIC ACID

BUTANOIC ACID (N-BUTYRIC ACID)

$\text{CH}_3\text{CH}_2\text{CH}_2\text{COOH} = 88.11\text{g/mol}$



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		99.5%		100ml

BUTAN-1-OL (N-BUTYL ALCOHOL)

$\text{CH}_3(\text{CH}_2)_3\text{OH} = 74.12\text{g/mol}$



UN Class: 3 / UN1120 PG-III EC No.: 200-751-6 Danger
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		99.5%		500ml
ESC55004		99.5%		2.5L

BUTAN-2-OL (SEC-BUTYL ALCOHOL)

$\text{CH}_3\text{CH}_2\text{CHOHCH}_3 = 74.12\text{g/mol}$



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		99.5%		1L

BUTANONE (METHYL ETHYL KETONE)

$\text{C}_2\text{H}_5\text{COCH}_3 = 72.11\text{g/mol}$



UN Class: 3 / UN1193 PG-II EC No.: 201-159-0 Danger
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		99%		2.5L

N-BUTYL ACETATE (BUTYL ETHANOATE)

$\text{CH}_3\text{COO}(\text{CH}_2)_3\text{CH}_3 = 116.16\text{g/mol}$



UN Class: 3 / UN1123 PG-III EC No.: 204-658-1 Warning
Cas No.: 123-86-4 Index No.: 607-025-00-1

Hazard: H226 H336 EUH066
Precaution: P210 P243 P280 P304+P340 P312

Cat No.	Grade	Assay	Info.	Per
ESC55640		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

N-BUTYLAMINE (1-AMINOBUTANE)

$\text{CH}_3(\text{CH}_2)_3\text{NH}_2 = 73.14\text{g/mol}$



UN Class: 3(8) / UN1125 PG-II EC No.: 203-699-2 Danger
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		98%		1L

N-BUTYL IODIDE SEE 1-IODOBUTANE

N-BUTYRALDEHYDE SEE BUTANAL



CAESIUM CHLORIDE				
$\text{CsCl} = 168.32\text{g/mol}$				
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		99%		10g

CAFFEINE (1,3,7-TRIMETHYLXANTHINE)				
$\text{C}_8\text{H}_{10}\text{N}_4\text{O}_2 = 194.19\text{g/mol}$				
UN Class: 6.1 /UN1544 PG-III		EC No.: 200-362-1		Warning
Cas No.: 58-08-2		Index No.: 613-086-00-5		
Hazard: H302				
Precaution: P301+P312				
Cat No.	Grade	Assay	Info.	Per
ESC55008		98%		25g

CALCIUM METAL - GRANULAR				
$\text{Ca} = 40.08\text{g/mol}$				
UN Class: 4.3 /UN1401 PG-II		EC No.: 231-179-5		Danger
Cas No.: 7440-70-2		Index No.: 020-001-00-X		
Hazard: H261				
Precaution: P231+P232 P422				
Cat No.	Grade	Assay	Info.	Per
ESC55041		98%	2-7mm	50g
ESC55042		98%	2-7mm	100g

CALCIUM ACETATE (CALCIUM ETHANOATE)				
$(\text{CH}_3\text{COO})_2\text{Ca} = 158.17\text{g/mol}$				
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		99%		250g

CALCIUM BROMIDE				
$\text{CaBr}_2 \cdot x\text{H}_2\text{O} = 199.89\text{g/mol}$				
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		97%		250g

CALCIUM CARBIDE				
$\text{CaC}_2 = 64.1\text{g/mol}$				
UN Class: 4.3 /UN1402 PG-II		EC No.: 200-848-3		Danger
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		97%		500g

CALCIUM CARBONATE - PRECIPITATED (PRECIPITATED)				
$\text{CaCO}_3 = 100.09\text{g/mol}$				
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		99%		500g
ESC55021		99%		1kg

CALCIUM CARBONATE ORE SEE MARBLE CHIPS

CALCIUM CHLORIDE ANHYDROUS - GRANULAR				
$\text{CaCl}_2 = 110.99\text{g/mol}$				
UN Class: N/A		EC No.: 233-140-8		Warning
Cas No.: 10043-52-4		Index No.: 017-013-00-2		
Hazard: H319				
Precaution: P305+P351+P338				
Cat No.	Grade	Assay	Info.	Per
ESC55032		90%		500g

CALCIUM CHLORIDE 2-WATER				
$\text{CaCl}_2 \cdot 2\text{H}_2\text{O} = 147.01\text{g/mol}$				
UN Class: N/A		EC No.: 233-140-8		Warning
Cas No.: 10035-04-8		Index No.: Not listed		
Hazard: H319				
Precaution: P305+P351+P338				
Cat No.	Grade	Assay	Info.	Per
ESC55028		98%		500g



CALCIUM CHLORIDE 6-WATER $\text{CaCl}_2 \cdot 6\text{H}_2\text{O} = 219.08\text{g/mol}$ 

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		98%		500g

CALCIUM HYDROXIDE $\text{Ca(OH)}_2 = 74.09\text{g/mol}$ 

UN Class: N/A EC No.: 215-137-3 Danger
 Cas No.: 1305-62-0 Index No.: Not listed
 Hazard: H318
 Precaution: P280 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55036		95%		500g

CALCIUM HYDROXIDE SOLUTION SEE LIME WATER**CALCIUM ETHANOATE SEE CALCIUM ACETATE****CALCIUM HYPOCHLORITE (BLEACHING POWDER)** $\text{Ca(OCl)}_2 = 142.98\text{g/mol}$ 

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		96%		500g

CALCIUM NITRATE 4-WATER $\text{Ca(NO}_3)_2 \cdot 4\text{H}_2\text{O} = 236.15\text{g/mol}$ 

UN Class: 5.1 /UN1454 PG-III EC 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		98%		500g

CALCIUM OXIDE (QUICKLIME) $\text{CaO} = 56.08\text{g/mol}$ 

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		96%		1kg
ESC55053		96%		500g

CALCIUM SULPHATE 2-WATER - PRECIPITATE $\text{CaSO}_4 \cdot 2\text{H}_2\text{O} = 172.17\text{g/mol}$

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		99%		500g

CALCIUM SULPHATE (PLASTER OF PARIS) $\text{CaSO}_4 \cdot \frac{1}{2}\text{H}_2\text{O} = 145.15\text{g/mol}$

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		N/A		500g
ESC55060		N/A		1kg

CALCIUM TETRAHYDROGEN PHOSPHATE (CALCIUM PHOSPHATE MONOBASIC) $\text{Ca(H}_2\text{PO}_4)_2 \cdot \text{H}_2\text{O} = 252.07\text{g/mol}$ 

UN Class: N/A EC No.: 231-837-1 Warning
 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		97%		500g

DL-CAMPOR - SYNTHETIC (1,7,7-TRIMETHYLBICYCLO[2.2.1]HEPTAN-2-ONE) $\text{C}_{10}\text{H}_{16}\text{O} = 152.24\text{g/mol}$ 

UN Class: 4.1 /UN2717 PG-III EC No.: 200-945-0 Warning
 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		97%		100g

CANADA BALSAM IN XYLENE



N/A



UN Class: 3 /UN1307 PG-III EC No.: N/A Warning
 Cas No.: N/A Index No.: Not listed
 Hazard: H226 H332 H312 H315
 Precaution: P280

Cat No.	Grade	Assay	Info.	Per
ESC55072		97%		25ml




CARMINE ACETIC				
N/A				
UN Class: 8 /UN1760 PG-III		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
ESC55076		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		59%		100g



CASTOR OIL SEE OIL, CASTOR





CATECHOL (BENZENE-1,2-DIOL OR PYROCATECHOL)				
$C_6H_4(OH)_2 = 110.11g/mol$				
				
UN Class: 6.1 /UN2811 PG-III		EC No.: 204-427-5		Warning
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		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		Warning
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		98%		25g



CHARCOAL-ACTIVATED (FOR GAS ABSORPTION 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 Absorption 8-24 Mesh				
Cat No.	Grade	Assay	Info.	Per
ESC55086		95%		250g
ESC55087		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		N/A		1kg

CHLORINE WATER					
					
UN Class: 8(5.1) /UN1791 PG-II			EC No.: 231-668-3		Warning
Cas No.: 7681-52-9			Index No.: 017-011-00-1		
Hazard: H315 H319					
Precaution: No additional precautions required					
Cat No.	Grade	Assay	Info.	Price	Per
ESC55091		98%		15.95	500ml

CHLOROACETIC ACID				
$ClCH_2COOH = 94.5g/mol$				
				
				
				
UN Class: 6.1(8) /UN1751 PG-II		EC No.: 201-178-4		Danger
Cas No.: 79-11-8		Index No.: 607-003-00-1		
Hazard: H331 H311 H301 H314 H400				
Precaution: P261 P273 P280 P301+P310 P501				
Cat No.	Grade	Assay	Info.	Per
ESC55093		99%		100g

CHLOROBENZENE				
$C_6H_5Cl = 112.56g/mol$				
				
				
				
UN Class: 3 /UN1134 PG-III		EC No.: 203-628-5		Warning
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		99%		2.5L

1-CHLOROBUTANE (BUTYL CHLORIDE)				
$CH_3(CH_2)_3Cl = 92.57g/mol$				
				
$-12^\circ C$				
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
ESC54766		98%		1L



1-CHLOROBUTANE (BUTYL CHLORIDE) $\text{CH}_3(\text{CH}_2)_2\text{Cl} = 92.57\text{g/mol}$ 

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		98%		100mL

CHROMIUM (III) NITRATE 9-WATER $\text{Cr}(\text{NO}_3)_3 \cdot 9\text{H}_2\text{O} = 400.15\text{g/mol}$ 

UN Class: 5.1 /UN2720 PG-III **EC No.:** 236-921-1 **Warning**
Cas No.: 7789-02-8 **Index No.:** Not listed
Hazard: H272 H315 H319
Precaution: P210 P280 P305+P351+P338 P337+P313

Cat No.	Grade	Assay	Info.	Per
ESC55108		96%		500g

CHLOROFORM (TRICHLOROMETHANE) $\text{CHCl}_3 = 119.38\text{g/mol}$ 

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		99.5%		2.5L

CHROMIUM (III) OXIDE $\text{Cr}_2\text{O}_3 = 151.99\text{g/mol}$

UN Class: N/A **EC No.:** 215-160-9
Cas No.: 1308-38-9 **Index No.:** Not listed

Hazard: Not considered hazardous
Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55112		99%		500g

2-CHLORO-2-METHYLPROPANE (TERT-BUTYL CHLORIDE) $(\text{CH}_3)_3\text{CCl} = 92.57\text{g/mol}$ 

UN Class: 3 /UN1127 PG-II **EC No.:** 208-066-4 **Danger**
Cas No.: 507-20-0 **Index No.:** Not listed
Hazard: H225
Precaution: P210

Cat No.	Grade	Assay	Info.	Per
ESC55102		98%		100ml

CHROMIUM (III) POTASSIUM SULPHATE 12-WATER (ALUM CHROME) $\text{CrK}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O} = 499.39\text{g/mol}$ 

UN Class: N/A **EC No.:** 233-401-6 **Warning**
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		99%		500g

CHOLESTEROL $\text{C}_{27}\text{H}_{46}\text{O} = 386.66\text{g/mol}$

UN Class: N/A **EC No.:** 200-353-2
Cas No.: 57-88-5 **Index No.:** Not listed

Hazard: Not considered hazardous
Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55103		95%		25g



CINNAMIC ACID (3-PHENYLACRYLIC ACID) $\text{C}_6\text{H}_5\text{CH}=\text{CH} \cdot \text{COOH} = 148.16\text{g/mol}$ 





UN Class: N/A **EC No.:** 205-398-1 **Warning**
Cas No.: 140-10-3 **Index No.:** Not listed


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



Cat No.	Grade	Assay	Info.	Per
ESC55118		99%		100g










CITRIC ACID ANHYDROUS				
$\text{HOC}(\text{COOH})(\text{CH}_2\text{COOH})_2 = 192.13\text{g/mol}$ 				
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		99.5%		500g





CITRIC ACID 1-WATER				
$\text{HOC}(\text{COOH})(\text{CH}_2\text{COOH})_2 \cdot \text{H}_2\text{O} = 210.14\text{g/mol}$  				
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		99%		500g
ESC55123		99%		1kg




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		N/A		1kg





COBALT METAL - POWDER				
$\text{Co} = 58.93\text{g/mol}$ 				
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
ESC55130		98%		250g




COBALT (II) CARBONATE BASIC				
$\text{CoCO}_3 \cdot [\text{Co}(\text{OH})_2]_n \cdot \text{H}_2\text{O} = 516.72\text{g/mol}$  				
UN Class: N/A		EC No.: 208-169-4		Danger
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		Co = 45-50%		500g

COBALT (II) CHLORIDE 6-WATER				
$\text{CoCl}_2 \cdot 6\text{H}_2\text{O} = 237.93\text{g/mol}$   				
UN Class: 9 / UN3077 PG-III		EC No.: 231-589-4		Danger
Cas No.: 7791-13-1		Index No.: 027-004-00-5		
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		98%		250g

COBALT (II) NITRATE 6-WATER				
$\text{Co}(\text{NO}_3)_2 \cdot 6\text{H}_2\text{O} = 291.03\text{g/mol}$   				
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		97%		500g

COBALT (II) OXIDE - BLACK (TRICOBALT TETRAOXIDE)				
$\text{Co}_3\text{O}_4 = 240.8\text{g/mol}$  				
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		97%		100g

COBALT (II) SULPHATE 7-WATER				
$\text{CoSO}_4 \cdot 7\text{H}_2\text{O} = 281.1\text{g/mol}$   				
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		97%		100g

COPPER METAL - POWDER - FINE				
$\text{Cu} = 63.55\text{g/mol}$  				
UN Class: 4.1 / UN3089 PG-II		EC No.: 231-159-6		Danger
Cas No.: 7440-50-8		Index No.: 027-005-00-0		
Hazard: H228 H410 Precaution: P210 P273				
Cat No.	Grade	Assay	Info.	Per
ESC55172		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		98%	Granules	100g
ESC55177		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		99%		250g

COPPER (I) CHLORIDE (CUPROUS CHLORIDE)

CuCl = 99g/mol



UN Class: 8 / UN2802 PG-III EC No.: 231-842-9 Warning
 Cas No.: 7758-89-6 Index No.: 029-001-00-4

Hazard: H302 H315 H318 H410
 Precaution: P273 P280 P305+P351+P338 P501

Cat No.	Grade	Assay	Info.	Per
ESC55146		96%		500g

COPPER (I) OXIDE (CUPROUS OXIDE)Cu₂O = 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		95%		100g
ESC55165		95%		500g

CHROMIUM (III) CHLORIDE 6-WATER (CHROMIUM TRICHLORIDE)CrCl₃ • 6H₂O = 266.45g/mol

UN Class: N/A EC No.: 233-038-3
 Cas No.: 10060-12-5 Index No.: Not listed

Hazard: H302
 Precaution: P301+P312 P310

Cat No.	Grade	Assay	Info.	Per
ESC55104		95%		500g

COPPER (II) BROMIDE (CUPRIC BROMIDE)CuBr₂ = 223.35g/mol

UN Class: 8 / UN3260 PG-III EC No.: 232-167-2 Danger
 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		98%		100g

COPPER (II) CARBONATE BASIC (CUPRIC CARBONATE BASIC)CuCO₃ • Cu(OH)₂ = 221.12g/mol

UN Class: N/A EC No.: 235-113-6 Warning
 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		Cu = 54%		250g
ESC55152		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 Warning
 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		96%		500g

COPPER (II) NITRATE 3-WATER (CUPRIC NITRATE)Cu(NO₃)₂ • 3H₂O = 241.6g/mol

UN Class: 5.1 / UN1477 PG-II EC No.: 221-838-5 Danger
 Cas No.: 10031-43-3 Index No.: Not listed

Hazard: H272 H302 H315 H319 H400
 Precaution: P210 P273 P280 P302+P352 P305+P351+P338 P309+P311

Cat No.	Grade	Assay	Info.	Per
ESC55160		98.5%		500g



COPPER (II) SULPHATE - ANHYDROUS (CUPRIC SULPHATE)				
CuSO ₄ = 159.61g/mol				
UN Class: 9 /UN3077 PG-III		EC No.: 231-847-6		Warning
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		97%		500g

COPPER (II) OXIDE (CUPRIC OXIDE)				
CuO = 79.55g/mol				
UN Class: 9 /UN3077 PG-III		EC No.: 215-269-1		Warning
Cas No.: 1317-38-0		Index No.: Not listed		
Hazard: H302 H410				
Precaution: P273 P501				
Cat No.	Grade	Assay	Info.	Per
ESC55167		96%	Black powder	250g
ESC55168		96%	Black powder	500g

COPPER (II) SULPHATE 5-WATER (CUPRIC SULPHATE PENTAHYDRATE)				
CuSO ₄ · 5H ₂ O = 249.69g/mol				
UN Class: 9 /UN3077 PG-III		EC No.: 231-847-6		Warning
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		98%	Black powder	500g

CRESOL RED INDICATOR (O-CRESOLSULFONPHTHALEIN)				
C ₂₁ H ₁₈ O ₅ S = 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		N/A	pH 0.2-1.8, pH 7.2-8.8	25g

CRESOL RED 0.02% AQUEOUS SOLUTION				
UN Class: N/A		EC No.: 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		0.02%	Solution	500ml

CRYSTAL VIOLET C.I.42555 (BASIC VIOLET 3, GENTIAN VIOLET)				
C ₂₅ H ₃₀ N ₃ Cl = 407.98g/mol				
UN Class: 9 /UN3077 PG-III		EC No.: 208-953-6		Danger
Cas No.: 548-62-9		Index No.: 612-204-00-2		
Hazard: H351 H302 H318 H410				
Precaution: P273 P280 P305+P351+P338				
Cat No.	Grade	Assay	Info.	Per
ESC55200		N/A		50g

CRYSTAL VIOLET AQUEOUS SOLUTION				
C ₂₅ H ₃₀ N ₃ Cl = 407.98g/mol				
UN Class: N/A		EC No.: N/A		Warning
Cas No.: N/A		Index No.: Not listed		
Hazard: H319 H351 H411				
Precaution: P273 P281 P305+P351+P338				
Cat No.	Grade	Assay	Info.	Per
ESC55202		1%	Aq. Solution	100ml

CYCLOHEXANE				
C ₆ H ₁₂ = 84.16g/mol				
UN Class: 3 /UN1145 PG-II		EC No.: 203-806-2		Danger
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		98%	Aq. Solution	500ml

CYCLOHEXANOL				
C ₆ H ₁₁ OH = 100.16g/mol				
UN Class: N/A		EC No.: 203-630-6		Warning
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		99%		500ml

CYCLOHEXANONE				
CH ₃ (CH ₂) ₄ CO = 98.14g/mol				
UN Class: 3 /UN1915 PG-III		EC No.: 203-631-1		Warning
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		99%		500ml



CYCLOHEXENE (Tetrahydrobenzene) $C_6H_{10} = 82.15g/mol$ 

-12°C

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 P313

Cat No.	Grade	Assay	Info.	Per
ESC55215		99%		500ml
ESC55216		99%		1L

DECANE $CH_3(CH_2)_8CH_3 = 142.28g/mol$ 

UN Class: 3 /UN2247 PG-III **EC No.:** 204-686-4 **Danger**
Cas No.: 124-18-5 **Index No.:** Not listed
Hazard: H226 H304
Precaution: P301+P310 P331

Cat No.	Grade	Assay	Info.	Per
ESC55218		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		98%		25g

1-6-DIAMINOHEXANE 5% AQUEOUS SOLUTION

N/A



UN Class: 8 /UN3267 PG-III **EC No.:** 204-679-6 **Warning**
Cas No.: 124-09-4 **Index No.:** Not listed
Hazard: H315 H319
Precaution: P280 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55220		5%	Aq. Solution	250ml

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		97%	SURCHARGE	50g

DIBUTYL PHTHALATE (N-BUTYL PHTHALATE) $C_6H_4-1,2-[CO_2(CH_2)_3CH_3]_2 = 278.35g/mol$ 

UN Class: 9 /UN3082 PG-III **EC No.:** 201-557-4 **Danger**
Cas No.: 84-74-2 **Index No.:** 607-318-00-4
Hazard: H360Df H400
Precaution: P201 P273 P308+P313

Cat No.	Grade	Assay	Info.	Per
ESC55221		99%		1L

DICHLOROACETIC ACID $Cl_2CHCOOH = 128.94g/mol$ 

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		98%		100ml

1,4-DICHLOROBENZENE (P-DICHLOROBENZENE) $C_6H_4Cl_2 = 147g/mol$ 

UN Class: 9 /UN3077 PG-III **EC No.:** 203-400-5 **Warning**
Cas No.: 106-46-7 **Index No.:** 602-035-00-2
Hazard: H351 H319 H410
Precaution: P201 P273 P281 P305+P351+P338 P308+P313

Cat No.	Grade	Assay	Info.	Per
ESC55225		97%		250g

DICHLOROMETHANE (METHYLENE CHLORIDE) $CH_2Cl_2 = 84.93g/mol$ 

UN Class: 6.1 /UN1593 PG-III **EC No.:** 200-838-9 **Warning**
Cas No.: 75-09-2 **Index No.:** 602-004-00-3
Hazard: H351
Precaution: P260 P281 P308+P313 P501 P403+P235

Cat No.	Grade	Assay	Info.	Per
ESC55240		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		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		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		96%	Powder	1g
ESC54779		96%	Powder	5g

EOSIN C.I.45380 (ACID RED 87)				
N/A				
UN Class: N/A		EC No.: 241-409-6		Warning
Cas No.: 17372-87-1		Index No.: Not listed		
Hazard: H319				
Precaution: P305+P351+P338				
Cat No.	Grade	Assay	Info.	Per
ESC55276		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		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		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		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		N/A	6.2 - 11.55	50g
ESC55281		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		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		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) $\text{CH}_3\text{COOC}_2\text{H}_5 = 88.11\text{g/mol}$ 

-4°C

UN Class: 3 /UN1173 PG-II EC No.: 205-500-4 Danger
Cas No.: 141-78-6 Index No.: 607-022-00-5Hazard: H225 H319 H336
Precaution: P210 P261 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55284		99%		2.5L

ETHYLAMINE 70% W/W SOLUTION (70% W/W IN WATER) $\text{C}_2\text{H}_5\text{NH}_2 = 45.08\text{g/mol}$ 

-20°C

UN Class: 2.1 /UN1036 PG-II EC No.: 200-834-7 Danger
Cas No.: 75-04-7 Index No.: 612-002-00-4Hazard: H225 H302 H311 H314 H335
Precaution: P210 P261 P280 P305+P351+P338 P310

Cat No.	Grade	Assay	Info.	Per
ESC55296		70%		1L
ESC55297		70%		2.5L

ETHYL-4-AMINO BENZOATE (BENZOCAINE) $\text{NH}_2\text{C}_6\text{H}_4\text{COOC}_2\text{H}_5 = 165.19\text{g/mol}$ UN Class: N/A EC No.: 202-303-5 Warning
Cas No.: 94-09-7 Index No.: Not listedHazard: H317
Precaution: P280 P302+P352

Cat No.	Grade	Assay	Info.	Per
ESC55291		99%		50g

ETHYL BENZOATE $\text{C}_6\text{H}_5\text{COOC}_2\text{H}_5 = 150.17\text{g/mol}$ UN Class: N/A EC No.: 202-284-3
Cas No.: 93-89-0 Index No.: Not listedHazard: Not considered hazardous
Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55292		99%		100ml

ETHYLENEDIAMINE (1,2-DIAMINOETHANE) $\text{NH}_2\text{CH}_2\text{CH}_2\text{NH}_2 = 60.1\text{g/mol}$ UN Class: 8(3) /UN1604 PG-II EC No.: 203-468-6
Cas No.: 107-15-3 Index No.: 612-006-00-6Hazard: 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		97%		1L

ETHYL FORMATE (FORMIC ACID ETHYL ESTER) $\text{HCOOC}_2\text{H}_5 = 74.08\text{g/mol}$ 

-20°C

UN Class: 3 /UN1190 PG-II EC No.: 203-721-0 Danger
Cas No.: 109-94-4 Index No.: 607-015-00-7Hazard: H225 H332 H302 H319 H335
Precaution: P210 P240 P280 P304+P340 P305+P351+P338 P309

Cat No.	Grade	Assay	Info.	Per
ESC55310		98%		100ml

ETHYLENE GLYCOL (ETHANE-1,2-DIOL) $\text{HOCH}_2\text{CH}_2\text{OH} = 62.07\text{g/mol}$ UN Class: N/A EC No.: 203-473-3 Warning
Cas No.: 107-21-1 Index No.: 603-027-00-1Hazard: H302
Precaution: P301+P312

Cat No.	Grade	Assay	Info.	Per
ESC55304		99%		2.5L

EVOLVE CH15 (COLD DEGREASING AGENT)

N/A

UN Class: 3 /UN3295 PG-III EC No.: N/A Danger
Cas No.: N/A Index No.: Not listedHazard: H350 H340 H304 EUH066
Precaution: P201 P281 P301+P310 P308+P313

Cat No.	Grade	Assay	Info.	Per
ESC55306		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 listedHazard: H411
Precaution: P273





Cat No.	Grade	Assay	Info.	Per
ESC55312		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		N/A		1L


FERROIN INDICATOR SOLUTION (1,10-PHENANTHROLINE IRON(II) 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		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		Warning
Cas No.: 2321-07-5		Index No.: Not listed		
Hazard: H319				
Precaution: P305+P351+P338				
Cat No.	Grade	Assay	Info.	Per
ESC55320		N/A		5g




FORMALDEHYDE (METHANAL)				
$HCHO = 30.03g/mol$				  
UN Class: 8 /UN2209 PG-III		EC No.: 200-001-8		Danger
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			38-40% w/v	2.5L


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		90%		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		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		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		98%		50g
ESC55329		98%		100g

FUCHSIN BASIC STAIN C.I.42510 (BASIC VIOLET 14)				
N/A				 
UN Class: N/A		EC No.: 211-189-6		Danger
Cas No.: 58969-01-0		Index No.: Not listed		
Hazard: H302 H351				
Precaution: P281				
Cat No.	Grade	Assay	Info.	Per
ESC55330		N/A		5g


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				
Cat No.	Grade	Assay	Info.	Per
ESC55230		98%		25g



GELATINE POWDER

UN Class: N/A EC No.: 232-554-6
 Cas No.: 9000-70-8 Index No.: Not listed

Hazard: Not considered hazardous
 Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55333		N/A		500g


GENTIAN VIOLET SEE CRYSTAL VIOLET**GIBBERELIC ACID**

$C_{19}H_{22}O_6 = 346.37g/mol$



UN Class: N/A EC No.: 201-001-0 Warning
 Cas No.: 77-06-5 Index No.: Not listed


Hazard: H319
 Precaution: P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55334		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		N/A		500g

D (+) GLUCOSE 1-WATER (DEXTRROSE 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		98%		500g

GLYCEROL TRIACETATE (TRIACETIN)

$(CH_3COO)_3C_3H_5 = 218.21g/mol$

UN Class: N/A EC No.: 203-051-9
 Cas No.: 102-76-1 Index No.: Not listed

Hazard: Not considered hazardous
 Precaution: No additional precautions required


Cat No.	Grade	Assay	Info.	Per
ESC55342		98%		500ml

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		98%		250g

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	Assay	Info.	Per
ESC55336		98%		1g
ESC55337		98%		5g

L-GLUTAMIC ACID

$HO_2CCH_2CH_2CH(NH_2)CO_2H = 147.13g/mol$

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		99%		100g



GLYCEROL (GLYCERINE OR PROPANE-1,2,3-TRIOL)

$HOCH_2CH(OH)CH_2OH = 92.09g/mol$



UN Class: N/A EC No.: 200-289-5 Warning
 Cas No.: 56-81-5 Index No.: Not listed

Hazard: H319
 Precaution: P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55340		99%		1L
ESC55341		99%		2.5L



GLYCINE (AMINOACETIC ACID)

 $\text{NH}_2\text{CH}_2\text{COOH} = 75.07\text{g/mol}$

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		98.5%		100g

GRAM'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
ESC55350		N/A		1L

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
ESC55348		95%	Powder	1kg

GUM ARABIC SEE ACACIA POWDER

HEPTANE FRACTION FROM PETROLEUM

 $\text{CH}_3(\text{CH}_2)_5 \cdot \text{CH}_3 = 100.21\text{g/mol}$ 

-25°C

UN Class: 3 /UN1206 PG-II EC No.: 205-563-8 Danger
 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		85%		2.5L

N-HEXANE

 $\text{CH}_3(\text{CH}_2)_4\text{CH}_3 = 86.18\text{g/mol}$ 

-23°C

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		97%		2.5L

HEPTAN-1-OL (HEPTYL ALCOHOL)

 $\text{CH}_3(\text{CH}_2)_6\text{OH} = 116.2\text{g/mol}$ 

UN Class: N/A EC No.: 203-897-9 Warning
 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		>99%		100ml

HEXANE FRACTION FROM PETROLEUM

 $\text{CH}_3(\text{CH}_2)_4\text{CH}_3 = 86.18\text{g/mol}$ 

-23°C

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
ESC55654		85%		500ml
ESC55655		85%		2.5L

HEXANE-1,6-DIAMINE SEE 1,6-DIAMINOHEXANE

HEXANEDIOIC ACID SEE ADIPIC ACID

HEXANOIC ACID (CAPROIC ACID)

 $\text{CH}_3(\text{CH}_2)_4\text{COOH} = 116.16\text{g/mol}$ 

UN Class: 8 /UN2829 PG-III EC No.: 205-550-7 Danger
 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		99%		100ml

HEXAN-1-OL (HEXYL ALCOHOL)

 $\text{CH}_3(\text{CH}_2)_5\text{OH} = 102.17\text{g/mol}$ 

59°C

UN Class: 3 /UN2282 PG-III EC No.: 203-852-3 Warning
 Cas No.: 111-27-3 Index No.: 603-059-00-6
 Hazard: H302
 Precaution: P301+P312

Cat No.	Grade	Assay	Info.	Per
ESC55657		98%		500ml



HEX-1-ENECH₃(CH₂)₃CH=CH₂ = 84.16g/mol

UN Class: 3 /UN2370 PG-II **EC No.:** 209-753-1 **Danger**
Cas No.: 592-41-6 **Index No.:** Not listed
Hazard: H225 H304
Precaution: P210 P301+P310 P331

Cat No.	Grade	Assay	Info.	Per
ESC55658		98%		100ml

HYDROCHLORIC ACID 1.0M (1.0N)

Hcl = 36.46g/mol



UN Class: 8 /UN1789 PG-III **EC No.:** 231-595-7 **Warning**
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		1.0M		2.5L

HYDROCHLORIC ACID - 36-38%

Hcl = 36.46g/mol



UN Class: 8 /UN1789 PG-II **EC No.:** 231-595-7 **Danger**
Cas No.: 7647-01-0 **Index No.:** 017-002-01-X
Hazard: H314 H335 H290
Precaution: P261 P280 P305+P351+P338 P310

Cat No.	Grade	Assay	Info.	Per
ESC55367		37%		1L
ESC55368		36-38%	SURCHARGE	1L
ESC55369		36-38%		2.5L

HYDROCHLORIC ACID 2M

Hcl = 36.46g/mol



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		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		0.1M		2.5L

HYDROCHLORIC ACID 4M (4N)

Hcl = 36.46g/mol



UN Class: 8 /UN1789 PG-III **EC No.:** 231-595-7 **Warning**
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		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		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		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		99%		100g



HYDROGEN PEROXIDE 20 VOLS (DIOXIDANE)				
$H_2O_2 = 34.01g/mol$ 				
UN Class: N/A		EC No.: 231-765-0		
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		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		
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		29-30%		1L
ESC55378		29-30%		500ml



HYDROXYLAMMONIUM CHLORIDE (HYDROXYLAMINE HYDROCHLORIDE)				
$NH_2OH \cdot HCl = 69.49g/mol$ 				
UN Class: 8(6.1) /UN2923 PG-II		EC No.: 226-798-2		
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		98%		100g

INDIGO CARMINE C.I.73015				
N/A 				
UN Class: N/A		EC No.: 212-728-8		
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		N/A	11.4- 13.0	5g

INDOL-3-YL-ACETIC ACID (IAA)				
$C_{10}H_9NO_2 = 175.18g/mol$				
UN Class: N/A		EC No.: 201-748-2		
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		96%		1g

IODINE				
$I_2 = 253.81g/mol$ 				
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		99.5%		100g

IODINE 0.05M (0.1N) SOLUTION				
$I_2 = 253.81g/mol$				
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		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		1%		500ml
ESC55393		1%		1L



1-IODOBUTANE (BUTYL IODIDE)CH₃(CH₂)₃I = 184.02g/mol

33°C

UN Class: 3 /UN1993 PG-III **EC No.:** 208-824-4 **Danger**
Cas No.: 542-69-8 **Index No.:** Not listed

Hazard: H226 H331
Precaution: P210 P405 P501

Cat No.	Grade	Assay	Info.	Per
ESC55398		99%		25ml

IDOETHANE (ETHYL IODIDE)C₂H₅I = 155.97g/mol

53°C

UN Class: 3 /UN1993 PG-III **EC No.:** 200-833-1 **Danger**
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		99%		25ml

IRON METAL - FILINGS

Fe = 55.85g/mol

UN Class: N/A **EC No.:** 231-096-4 **Danger**
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		97%	Coarse (1.0mm)	500g

IRON POWDER REDUCED BY HYDROGEN

Fe = 55.85g/mol



UN Class: 4.1 /UN3089 PG-III **EC No.:** 231-096-4 **Danger**
Cas No.: 7439-89-6 **Index No.:** Not listed

Hazard: H228
Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55406		96%		500g

IRON (II) SULPHIDE LUMP (FERROUS SULPHIDE)

FeS = 87.91g/mol



UN Class: N/A **EC No.:** 215-268-6 **Warning**
Cas No.: 1317-37-9 **Index No.:** Not listed

Hazard: H400
Precaution: P273

Cat No.	Grade	Assay	Info.	Per
ESC55420		90%		500g

IRON (II) CHLORIDE 4-WATER (FERROUS CHLORIDE)FeCl₂ • 4H₂O = 198.81g/mol

UN Class: 8 /UN3260 PG-III **EC No.:** 231-843-4 **Danger**
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		99%		500g

IRON (II) OXALATEFe₂CO₄ • 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		98%		100g

IRON (II,III) OXIDE (MAGNETITE)Fe₃O₄ = 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		N/A		100g

IRON (II) SULPHATE 7-WATER (FERROUS SULPHATE)FeSO₄ • 7H₂O = 278.01g/mol

UN Class: N/A **EC No.:** 231-753-5 **Warning**
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		98%		500g



IRON (III) CHLORIDE 6-WATER (FERRIC CHLORIDE)				
$\text{FeCl}_3 \cdot 6\text{H}_2\text{O} = 270.3\text{g/mol}$				
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		98%		500g

IRON (III) CHLORIDE ANHYDROUS (FERRIC CHLORIDE)				
$\text{FeCl}_3 = 162.2\text{g/mol}$				
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		96%		500g

IRON (III) NITRATE 9-WATER (FERRIC NITRATE)				
$\text{Fe}(\text{NO}_3)_3 \cdot 9\text{H}_2\text{O} = 404\text{g/mol}$				
UN Class: 5.1 /UN1466 PG-III		EC No.: 233-899-5		Warning
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		98%		500g

IRON (III) OXIDE (FERRIC OXIDE)				
$\text{Fe}_2\text{O}_3 = 159.69\text{g/mol}$				
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		95%		500g

IRON (III) SULPHATE HYDRATED TECH (FERRIC SULPHATE)				
$\text{Fe}_2(\text{SO}_4)_3 \cdot x\text{H}_2\text{O} = 399.88\text{g/mol}$				
UN Class: N/A		EC No.: 233-072-9		Warning
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		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		N/A	Powder	1g
ESC55443		1%	Powder	100ml

KAOLIN LIGHT (ALUMINUM SILICATE HYDROXIDE)				
$\sim\text{Al}_2\text{Si}_2\text{O}_5(\text{OH})_4 = 258.16\text{g/mol}$				
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		N/A		1kg

KEROSENE WHITE SEE PARAFFIN OIL				
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KINETIN				
$\text{C}_{10}\text{H}_9\text{N}_5\text{O} = 215.22\text{g/mol}$				
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		99%		1kg

DL-LACTIC ACID (2-HYDROXYPROPIONIC ACID)				
$\text{CH}_3\text{CH}(\text{OH})\text{COOH} = 90.08\text{g/mol}$				
UN Class: N/A		EC No.: 209-954-4		Danger
Cas No.: 50-21-5		Index No.: Not listed		
Hazard: H315 H318				
Precaution: P280 P305+P351+P338				
Cat No.	Grade	Assay	Info.	Per
ESC55459		88%		500ml

LACTOSE				
$\text{C}_{12}\text{H}_{22}\text{O}_{11} \cdot \text{H}_2\text{O} = 360.31\text{g/mol}$				
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		98%		500g



LATEX				
$(C_3H_5NaO_2)_n$				
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		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		
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		98%		25g

LEAD METAL				
Pb = 207.2g/mol				
UN Class: N/A		EC No.: 231-100-4		
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)				
$Pb(CH_3CO_2)_2 \cdot 3H_2O = 379.33g/mol$				
UN Class: 6.1 /UN1616 PG-III		EC No.: 206-104-4		
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		98%		500g

LEAD (II) BROMIDE				
$PbBr_2 = 367.01g/mol$				
UN Class: 6.1 /UN2291 PG-III		EC No.: 233-084-4		
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		98%		100g
CHE291648		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		
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		97%		500g

LEAD (IV) OXIDE (LEAD DIOXIDE)				
$PbO_2 = 239.2g/mol$				
UN Class: 5.1(6.1) /UN1872 PG-III		EC No.: 215-174-5		
Cas No.: 1309-60-0		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
ESC55496		95%		250g

LEAD (II) SULPHATE					
$PbSO_4 = 303.26g/mol$					
UN Class: 9 /UN3077 PG-III		EC No.: 231-198-9			
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		99%		15.95	100g

LEAD (II) SULPHIDE					
$PbS = 239.27g/mol$					
UN Class: 9 /UN3077 PG-III		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		98%			100g

LEISHMAN'S STAIN				
UN Class: N/A				
Cas No.: 12627-53-1		EC No.: 235-732-1		
Index No.: Not listed				
Hazard: Not considered hazardous				
Precaution: No additional precautions required				
Cat No.	Grade	Assay	Info.	Per
ESC55499		N/A		5g



DL-LEUCINE				
$(\text{CH}_3)_2\text{CHCH}_2\text{CH}(\text{NH}_2)\text{CO}_2\text{H} = 131.17\text{g/mol}$				
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		99%		5g

L-LEUCINE				
$(\text{CH}_3)_2\text{CHCH}_2\text{CH}(\text{NH}_2)\text{CO}_2\text{H} = 131.17\text{g/mol}$				
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		99%		25g

LIME WATER (LIMEWATER)				
$\text{Ca}(\text{OH})_2 = 74.09\text{g/mol}$				
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				
Cat No.	Grade	Assay	Info.	Per
ESC55504		N/A		500ml

LIMONENE (DIPENTENE)				
$\text{C}_{10}\text{H}_{16} = 136.24\text{g/mol}$				
UN Class: 3 / UN2052 PG-III		EC No.: 205-341-0		Warning
Cas No.: 138-86-3		Index No.: 601-029-00-7		
Hazard: H226 H315 H317 H410				
Precaution: P273 P280 P501				
Notes: For detecting Carbon dioxide				
Cat No.	Grade	Assay	Info.	Per
ESC55506		98%		250ml

LIMONENE (R)-(+)-				
$\text{C}_{10}\text{H}_{16} = 136.23\text{g/mol}$				
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		97%		25ml

LIMONENE (S)-(-)-				
$\text{C}_{10}\text{H}_{16} = 136.23\text{g/mol}$				
UN Class: 3 / UN2052 PG-III		EC No.: 227-815-6		Warning
Cas No.: 5989-54-8		Index No.: 601-029-00-7		
Hazard: H226 H315 H317 H410				
Precaution: P210 P241 P303+P361+P353				
Cat No.	Grade	Assay	Info.	Per
ESC55508		97%		25ml

LITHIUM METAL IN LIQUID PARAFFIN				
$\text{Li} = 6.94\text{g/mol}$				
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		99%	SURCHARGE	10g
ESC55511		99%	SURCHARGE	25g

LITHIUM CARBONATE				
$\text{Li}_2\text{CO}_3 = 73.89\text{g/mol}$				
UN Class: N/A		EC No.: 209-062-5		Warning
Cas No.: 554-13-2		Index No.: Not listed		
Hazard: H302 H319 H332				
Precaution: P305+P351+P338				
Cat No.	Grade	Assay	Info.	Per
ESC55513		99%		500g

LITHIUM CHLORIDE ANHYDROUS				
$\text{LiCl} = 42.39\text{g/mol}$				
UN Class: N/A		EC No.: 231-212-3		Warning
Cas No.: 7447-41-8		Index No.: Not listed		
Hazard: H302 H315 H319 H335				
Precaution: P261 P305+P351+P338				
Cat No.	Grade	Assay	Info.	Per
ESC55515		98.5%		500g

LITHIUM HYDROXIDE				
$\text{LiOH} \cdot \text{H}_2\text{O} = 41.96\text{g/mol}$				
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		98%		500g



LITHIUM NITRATE ANHYDROUSLiNO₃ = 68.95g/mol**UN Class:** 5.1 /UN2722 PG-III
Cas No.: 7790-69-4**EC No.:** 232-218-9
Index No.: Not listed

Warning

Hazard: H272
Precaution: P220

Cat No.	Grade	Assay	Info.	Per
ESC55519		98%		100g

L-LYSINE MONOHYDROCHLORIDEH₂N(CH₂)₄CH(NH₂)CO₂H • 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		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		N/A	Powder	25g

LYCOPodium POWDER

N/A

**UN Class:** 4.1 /UN1325 PG-II**EC No.:** 282-002-3**Cas No.:** 8023-70-9**Index No.:** Not listed

Danger

Hazard: H228**Precaution:** P210

Cat No.	Grade	Assay	Info.	Per
ESC55530		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		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

Danger

Hazard: H260 H250**Precaution:** P222 P223 P231+P232

Cat No.	Grade	Assay	Info.	Per
ESC55534		99.5%	SURCHARGE	100g
ESC55536		99.5%	SURCHARGE	500g

LUMINOL (3-AMINOPHTHALHYDRAZIDE)Nh₂ . C₆H₃ . 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		97%		1g
ESC55528		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



Danger


Hazard: H228 H261 H252**Precaution:** P210 P231+P232 P235+P410


Cat No.	Grade	Assay	Info.	Per
ESC55537		99.5%		100g
ESC55538		99.5%		250g





MAGNESIUM CHLORIDE 6-WATER				
$MgCl_2 \cdot 6H_2O = 203.31g/mol$				
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		97.5%		500g


MAGNESIUM CARBONATE BASIC - HEAVY				
$MgCO_3 = 84.31g/mol$				
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
ESC55540		MgO = 30%	Heavy	250g
ESC55541		MgO = 30%	Heavy	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		MgO = 30%	Light	500g


MAGNESIUM HYDROXIDE				
$Mg(OH)_2 = 58.32g/mol$				
UN Class: N/A		EC No.: 215-170-3		Warning
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		95%		500g


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		98%		500g

MAGNESIUM OXIDE - HEAVY				
$MgO = 40.3g/mol$				
UN Class: N/A		EC No.: 215-171-9		
Cas No.: 1309-48-4		Index No.: Not listed		
Hazard: Not considered hazardous				
Precaution: No additional precautions required				
Cat No.	Grade	Assay	Info.	Per
ESC55556		98%		500g

MAGNESIUM OXIDE - LIGHT				
$MgO = 40.3g/mol$				
UN Class: N/A		EC No.: 215-171-9		
Cas No.: 1309-48-4		Index No.: Not listed		
Hazard: Not considered hazardous				
Precaution: No additional precautions required				
Cat No.	Grade	Assay	Info.	Per
ESC55560		98%		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		97%		500g

MAGNESIUM SULPHATE 7-WATER				
$MgSO_4 \cdot 7H_2O = 246.47g/mol$				
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		99%		1kg

MAGNESIUM SULPHATE ANHYDROUS				
$MgSO_4 = 120.37g/mol$				
UN Class: N/A		EC No.: 231-298-2		
Cas No.: 7487-88-9		Index No.: Not listed		
Hazard: Not considered hazardous				
Precaution: No additional precautions required				
Cat No.	Grade	Assay	Info.	Per
ESC55568		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		N/A		5g

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
ESC55583		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		99%		500g

MANGANESE (II) CHLORIDE 4-WATER $MnCl_2 \cdot 4H_2O = 197.91g/mol$ 

UN Class: N/A **EC No.:** 231-869-6 **Warning**
Cas No.: 13446-34-9 **Index No.:** Not listed
Hazard: H302
Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55586		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		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 **Warning**
Cas No.: 10034-96-5 **Index No.:** 025-003-00-4
Hazard: H373 H411
Precaution: P273

Cat No.	Grade	Assay	Info.	Per
ESC55589		98%		500g

MALTOSE $C_{12}H_{22}O_{11} \cdot H_2O = 360.31g/mol$

UN Class: N/A **EC No.:** 200-716-5
Cas No.: 6363-53-7 **Index No.:** Not listed

Hazard: Not considered hazardous
Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55576		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		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		99%		100g

MANGANESE (IV) OXIDE $MnO_2 = 86.94g/mol$ 

UN Class: N/A **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

Cat No.	Grade	Assay	Info.	Per
ESC55595		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		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		99%		5g

MARBLE CHIPS (CALCIUM CARBONATE ORE)				
$CaCO_3 = 100.09g/mol$				
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		97%	2-4mm	3kg
ESC555600		97%	6-9mm	3kg
ESC555601		97%	9-12mm	3kg

MENTHOL				
$C_{10}H_{20}O = 156.27g/mol$				
UN Class: N/A		EC No.: 218-690-9		Danger
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		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		99%		100g

MERCURY (II) OXIDE RED (MERCURIC OXIDE RED)				
$HgO = 216.59g/mol$				
UN Class: 6.1 /UN1641 PG-II		EC No.: 244-654-7		Danger
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		N/A		100g

METHANAL	SEE FORMALDEHYDE
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METHANOIC ACID	SEE FORMIC ACID
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METHANOL (METHYL ALCOHOL)				
$CH_3OH = 32.04g/mol$				
11°C				
UN Class: 3(6.1) /UN1230 PG-II		EC No.: 200-659-6		Danger
Cas No.: 67-56-1		Index No.: 603-001-00-X		
Hazard: H225 H311 H314 H302 H332				
Precaution: P210 P260 P280 P301+P310 P303+P361				
Cat No.	Grade	Assay	Info.	Per
ESC55609		99%	GR	1L
ESC55610		99%	HPLC	1L

METHYL ACETATE				
$CH_3COOCH_3 = 74.08g/mol$				
UN Class: 3 /UN1231 PG-II		EC No.: 201-185-2		Danger
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		98.5%		1L

METHYLATED SPIRIT (INDUSTRIAL DENATURED ALCOHOL)				
$(C_2H_5OH \& CH_3OH)$				
13°C				
UN Class: 3 /UN1170 PG-II		EC No.: N/A		Danger
Cas No.: N/A		Index No.: Not listed		
Hazard: H225 H371				
Precaution: P210 P260				
Cat No.	Grade	Assay	Info.	Per
ESC55614		>98%	2-4mm	5L

METHYLATED SPIRIT (MINERALISED DENATURED ALCOHOL)				
$(C_2H_5OH \& CH_3OH)$				
13°C				
UN Class: 3 /UN1170 PG-II		EC No.: N/A		Danger
Cas No.: N/A		Index No.: Not listed		
Hazard: H225 H371				
Precaution: P210 P260				
Cat No.	Grade	Assay	Info.	Per
ESC55615		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		99%	9-12mm	500ml

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		N/A		25g

2-METHYLBUTANE SEE ISO-PENTANE**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		N/A		50g
ESC55632		N/A		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		1%		125ml

METHYLENE CHLORIDE SEE DICHLOROMETHANE**METHYL ETHYL KETONE** SEE 2-BUTANONE**METHYL METHACRYLATE MONOMER** $CH_2=C(CH_3)COOCH_3 = 100.12g/mol$ 

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

METHYL 4-HYDROXYBENZOATE $HOOC_6H_4CO_2CH_3 = 152.15g/mol$ 

UN Class: N/A **EC No.:** 202-785-7 **Warning**
Cas No.: 99-76-3 **Index No.:** Not listed
Hazard: H315 H319 H335
Precaution: P261 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55638		98%		50g

METHYL ORANGE C.I.13025

N/A



UN Class: 6.1 /UN3143 PG-III **EC No.:** 208-925-3 **Danger**
Cas No.: 547-58-0 **Index No.:** Not listed
Hazard: H301
Precaution: P301+P310

Cat No.	Grade	Assay	Info.	Per
ESC55621		N/A	2-4mm	50g
ESC55622		N/A	9-12mm	100g

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		0.04%	pH 2.9-4.6	500ml

METHYL ORANGE - XYLENE CYANOL (SCREENED METHYL ORANGE) $HOOC_6H_4CO_2CH_3 = 152.15g/mol$ 

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		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		0.36%	pH 2.9-4.6	500ml

2-METHYLPROPAN-1-OL (ISO-BUTYL ALCOHOL)

$(\text{CH}_3)_2\text{CHCH}_2\text{OH} = 74.12\text{g/mol}$



UN Class: 3 /UN1212 PG-III **EC No.:** 201-148-0 **Danger**
Cas No.: 78-83-1 **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		98%		1L

2-METHYLPROPAN-2-OL (TERT-BUTYL ALCOHOL)

$(\text{CH}_3)_3\text{COH} = 74.12\text{g/mol}$



UN Class: 3 /UN1120 PG-II **EC No.:** 200-889-7 **Danger**
Cas No.: 75-65-0 **Index No.:** 603-005-00-1
Hazard: H225 H332 H319 H335
Precaution: P210

Cat No.	Grade	Assay	Info.	Per
ESC54789		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		N/A	pH 4.2-6.3	100g

METHYL SALICYLATE (METHYL 2-HYDROXYBENZOATE OR OIL OF WINTERGREEN)

$2-(\text{HO})\text{C}_6\text{H}_4\text{CO}_2\text{CH}_3 = 152.12\text{g/mol}$



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		99%		500ml

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		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		N/A		500g

MUREXIDE (AMMONIUM PURPURATE)

$\text{C}_8\text{H}_5\text{N}_5\text{O}_6 \cdot \text{H}_3\text{N} = 284.19\text{g/mol}$

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		97%		25g

NAPHTHALENE CRYSTALS

$\text{C}_{10}\text{H}_8 = 128.17\text{g/mol}$



UN Class: 4.1 /UN1334 PG-III **EC No.:** 202-049-5 **Warning**
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		99%		500g

1-NAPHTHOL (NAPHTHALEN-1-OL)

$\text{C}_{10}\text{H}_7\text{OH} = 144.17\text{g/mol}$



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		98%		15.95	100g



2-NAPHTHOL (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		98%		100g

NEUTRAL RED C.I.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		N/A	pH 6,8-8.0	5g

NICKEL METAL - FOIL $Ni = 58.71g/mol$ 

UN Class: N/A **EC No.:** 231-111-4 **Danger**
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		>99%	Foil 0,15mm	100g

NICKEL (II) CARBONATE BASIC $\sim NiCO_3 \cdot 2Ni(OH)_2 \cdot 4H_2O = 342.1g/mol$ 

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		Ni = 46%		100g

NICKEL (II) CHLORIDE 6-WATER (NICKEL DICHLORIDE) $NiCl_2 \cdot 6H_2O = 237.69g/mol$ 

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		97%		15.95	500g

NICKEL (II) NITRATE 6-WATER $Ni(NO_3)_2 \cdot 6H_2O = 290.79g/mol$ 

UN Class: 5.1 /UN2725 PG-III **EC No.:** 236-068-5 **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		99.5%		250g

NICKEL (II) OXIDE BLACK TECHNICAL $NiO = 74.69g/mol$ 

UN Class: N/A **EC No.:** 215-215-7 **Danger**
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		N/A		100g

NICKEL (II) SULPHATE HYDRATED $NiSO_4 \cdot 6\cdot 7H_2O$ 

UN Class: 9 /UN3077 PG-III **EC No.:** 232-104-9 **Danger**
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		98%		250g

NIGROSIN C.I.50420 (ACID BLACK 2)

UN Class: N/A **EC No.:** 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		N/A		5g



NINHYDRIN (INDAN-1,2,3-TRIONE) $C_8H_6COC(OH)_2CO = 178.14g/mol$ 



UN Class: N/A **EC No.:** 207-618-1 **Warning**
Cas No.: 485-47-2 **Index No.:** Not listed




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


Cat No.	Grade	Assay	Info.	Per
ESC55684		98%		25g







NINHYDRIN SPRAY				
N/A				
12°C				
UN Class: 3 /UN1219 PG-II		EC No.: N/A		Danger
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		N/A		100ml



NITROBENZENE				
C ₆ H ₅ NO ₂ = 123.11g/mol				
UN Class: 6.1 /UN1662 PG-II		EC No.: 202-716-0		Danger
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		99%		100ml



NITRIC ACID 69%				
HNO ₃ = 63.01g/mol				
UN Class: 8(5.1) /UN2031 PG-II		EC No.: 231-714-2		Danger
Cas No.: 7697-37-2		Index No.: 007-004-00-1		
Hazard: H272 H314				
Precaution: P220 P280 P305+P351+P338 P310				
Cat No.	Grade	Assay	Info.	Per
ESC55692		65%		2.5L
ESC55696		69-70%		2.5L

NYLON 6/6 PELLETS (POLY(HEXAMETHYLENE ADIPAMIDE))				
(C ₁₂ H ₂₂ N ₂ O ₂) _n = 262.35g/mol				
UN Class: N/A		EC No.: 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		N/A		100g

NITRIC ACID 1.0M 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
ESC55688		1.0M		1L

N-OCTANE				
CH ₃ (CH ₂) ₆ CH ₃ = 114.23g/mol				
13°C				
UN Class: 3 /UN1262 PG-II		EC No.: 203-892-1		Danger
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		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		2.0M		1L

OCTAN-1-OL (OCTYL ALCOHOL)				
CH ₃ (CH ₂) ₇ OH = 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		94-98%		1L



OCTADECANOIC ACID SEE STEARIC ACID

OCTADEC-9-ENOIC ACID SEE OLEIC ACID

ISO-OCTANE SEE 2,2,4-TRIMETHYLPENTANE

OCT-1-ENE

$\text{CH}_3(\text{CH}_2)_7\text{CH}=\text{CH}_2 = 112.21\text{g/mol}$



21°C

UN Class: 3 / UN3295 PG-II **EC No.:** 203-893-7 **Danger**
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		97%		100ml

OIL - CASTOR

UN Class: N/A **EC No.:** 232-293-8 **Danger**
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		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		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 **Danger**
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		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		95%		500ml

OIL - OLIVE

UN Class: N/A **EC No.:** 232-277-0 **Danger**
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		95%		500ml

OIL - TURPENTINE

N/A



UN Class: 3 / UN1299 PG-III **EC No.:** 232-350-7 **Danger**
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		91%		500ml

OLEIC ACID (9-OCTADECENOIC ACID)

$\text{CH}_3(\text{CH}_2)_7\text{CH}=\text{CH}(\text{CH}_2)_7\text{COOH} = 282.46\text{g/mol}$



UN Class: N/A **EC No.:** 204-007-1 **Warning**
Cas No.: 112-80-1 **Index No.:** Not listed

Hazard: H315 H319

Precaution: P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55725		0.8%		1L

O.N.P.G (2-NITROPHENYL-BETA-D-GALACTOPYRANOSIDE)

$\text{C}_{12}\text{H}_{15}\text{NO}_8 = 301.25\text{g/mol}$

UN Class: N/A **EC No.:** 206-716-1 **Danger**
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		98%		1g

ORANGE G (ACID ORANGE 10)

N/A = 452.37g/mol

UN Class: N/A **EC No.:** N/A **Warning**
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		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		N/A		5g



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		N/A	0.6% Solution	100ml


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		N/A	0.6% Solution	100ml


ORTHOPHOSPHORIC ACID (PHOSPHORIC ACID)				
$H_3PO_4 = 98g/mol$ 				
UN Class: 8 /UN1805 PG-III		EC No.: 231-633-2		Danger
Cas No.: 7664-38-2		Index No.: 015-011-00-6		
Hazard: H314 Precaution: P260 P280 P305+P351+P338				
Cat No.	Grade	Assay	Info.	Per
ESC55735		85%		1L
ESC55736		85%		2.5L

OXALIC ACID 2-WATER (ETHANEDIOIC ACID)				
$(COOH)_2 \cdot 2H_2O = 126.07g/mol$ 				
UN Class: 8 /UN3261 PG-III		EC No.: 205-634-3		Warning
Cas No.: 6153-56-6		Index No.: 607-006-00-8		
Hazard: H312 H302 Precaution: P280				
Cat No.	Grade	Assay	Info.	Per
ESC55727		99.5%		500g
ESC55728		99.5%	PURIFIED	500g

PALMITIC ACID (HEXADECANOIC ACID)				
$CH_3(CH_2)_{14}COOH = 256.42g/mol$ 				
UN Class: N/A		EC No.: 200-312-9		Warning
Cas No.: 57-10-3		Index No.: Not listed		
Hazard: H319 Precaution: P305+P351+P338				
Cat No.	Grade	Assay	Info.	Per
ESC55737		95%		100g

PANCREATIN FROM PIG PANCREAS				
N/A  				
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		97%		25g
ESC55739		97%		100g

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		98%		1L

PARAFFIN OIL (KEROSENE OIL)				
N/A 				
UN Class: 3 /UN1223 PG-III		EC No.: 232-366-4		Danger
Cas No.: 8008-20-6		Index No.: 649-404-00-4		
Hazard: H304 Precaution: P301+P310				
Cat No.	Grade	Assay	Info.	Per
ESC55742		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		97%		500g

ISO-PENTANE (2-METHYLBUTANE)

$\text{CH}_3\text{CH}_2\text{CH}(\text{CH}_3)_2 = 72.15\text{g/mol}$



UN Class: 3 / UN1265 PG- EC No.: 201-142-8 Danger
 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		N/A		2.5L

N-PENTANE

$\text{CH}_3(\text{CH}_2)_3\text{CH}_3 = 72.15\text{g/mol}$



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		99%		2.5L

PENTAN-1-OL (N-AMYL ALCOHOL)

$\text{CH}_3(\text{CH}_2)_4\text{OH} = 88.15\text{g/mol}$



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		99%		1L
ESC55749		>99%		2.5L

PENTAN-2-OL

$\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}(\text{OH})\text{CH}_3 = 88.15\text{g/mol}$



UN Class: 3 / UN1105 PG-III EC No.: 227-907-6 Warning
 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		99%		100ml

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		N/A		100g

PETROLEUM ETHER (LIGROIN)

N/A



UN Class: 3 / UN1268 PG-II EC No.: 232-453-7 Danger
 Cas No.: 8032-32-4 Index No.: 649-263-00-9

Hazard: H225 H304 H315 H336 H361 H373 H411
 Precaution: P210 P261 P273 P281 P301+P310 P331

Cat No.	Grade	Assay	Info.	Per
ESC55755		95%		2.5L

PETROLEUM JELLY - WHITE (PARAFFIN SOFT WHITE)

UN Class: N/A EC No.: 232-373-2
 Cas No.: 8009-03-8 Index No.: Not listed

Hazard: Not considered hazardous
 Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55757		N/A		500g

1-10-PHENANTHROLINE HYDRATE

$\text{C}_{12}\text{H}_8\text{N}_2 \cdot \text{H}_2\text{O} = 198.22\text{g/mol}$



UN Class: 6.1 / UN2811 PG-III EC No.: 200-629-2 Danger
 Cas No.: 5144-89-8 Index No.: 613-092-00-8

Hazard: H301 H410
 Precaution: P273 P301+P310 P501

Cat No.	Grade	Assay	Info.	Per
ESC55759		98%		5g

PHENOL (CARBOLIC ACID)

$\text{C}_6\text{H}_5\text{OH} = 94.11\text{g/mol}$








UN Class: 6.1 / UN1671 PG-II EC No.: 203-632-7 Danger
 Cas No.: 108-95-2 Index No.: 604-001-00-2



Hazard: H341 H331 H311 H301 H373 H314
 Precaution: P261 P280 P301+P310 P305+P351+P338 P312


Cat No.	Grade	Assay	Info.	Per
ESC55761		98%		500g



PHENOLPHTHALEIN 1% SOLUTION				
N/A				
 13°C				
UN Class: 3 /UN1170 PG-II		EC No.: N/A		Danger
Cas No.: N/A		Index No.: Not listed		
Hazard: H225 H341 H350				
Precaution: P201 P210 P281 P308+P313				
Cat No.	Grade	Assay	Info.	Per
ESC55768		0.01%	pH 8.3-10.0	1L

PHENOLPHTHALEIN				
$\text{OCOC}_6\text{H}_4\text{C}(\text{C}_6\text{H}_4\text{OH})_2 = 318.33\text{g/mol}$				
				
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		N/A	pH 8.3-10.0	50g
ESC55776		N/A	pH 8.3-10.0	100g

PHENOL RED (PHENOLSULFONPHTHALEIN)				
$\text{C}_{19}\text{H}_{14}\text{O}_5\text{S} = 354.38\text{g/mol}$				
				
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		N/A		25g




DL-PHENYLALANINE (DLPA)				
$\text{C}_6\text{H}_5\text{CH}_2\text{CH}(\text{NH}_2)\text{COOH} = 165.19\text{g/mol}$				
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		99%		5g


PHENYLAMINE SEE ANILINE



PHENYLAMMONIUM CHLORIDE SEE ANILINE HYDROCHLORIDE



PHENYLETHYLENE SEE STYRENE

PHENYLMETHANOL SEE BENZYL ALCOHOL

PHENYL SALICYLATE (PHENYL-2-HYDROXYBENZOATE OR SALOL)				
$\text{C}_6\text{H}_4(\text{OH})\text{COOC}_6\text{H}_5 = 214.22\text{g/mol}$				
				
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		99%		100g
ESC55772		99%		250g

PHLOROGLUCINOL 2-WATER (BENZENE-1,3,5-TRIOL)				
$\text{C}_6\text{H}_3(\text{OH})_3 \cdot 2\text{H}_2\text{O} = 162.14\text{g/mol}$				
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		95%		10g

PHLOROGLUCINOL 5% SOLUTION - ALCOHOLIC				
N/A				
 13°C				
UN Class: 3 /UN1170 PG-II		EC No.: N/A		Danger
Cas No.: N/A		Index No.: Not listed		
Hazard: H225 H371				
Precaution: P210 P260				
Cat No.	Grade	Assay	Info.	Per
ESC55780		N/A		100ml

PHOSPHORUS - RED				
$\text{P} = 30.97\text{g/mol}$				
 13°C				
UN Class: 4.1 /UN1338 PG-III		EC No.: 231-768-7		Danger
Cas No.: 7723-14-0		Index No.: 015-002-00-7		
Hazard: H228 H412				
Precaution: P210 P273				
Cat No.	Grade	Assay	Info.	Per
ESC55784		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		N/A		500g

PHOSPHORUS PENTOXIDE (PHOSPHORIC ANHYDRIDE)P₂O₅ = 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		95%		250g

PHTHALIC ACID (BENZENE-1,2-DICARBOXYLIC ACID)C₆H₄(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		98%		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		99.5%		500g

POLY(VINYL ALCOHOL) (ETHENOL)(CH₂: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		85%		250g
ESC55800		87 - 90%		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		N/A		100g

POTASSIUM METAL IN LIQUID PARAFFIN

K = 39.1g/mol



UN Class: 4.3 /UN2257 PG-I **EC No.:** 231-119-8 **Danger**
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		98%	SURCHARGE	25g
ESC55806		98%	SURCHARGE	100g

POTASSIUM BROMATEKBrO₃ = 167g/mol

UN Class: 5.1 /UN1484 PG-II **EC No.:** 231-829-8 **Danger**
Cas No.: 7758-01-2 **Index No.:** 035-003-00-6
Hazard: H271 H350 H301
Precaution: P201 P220 P301+P310 P308+P313

Cat No.	Grade	Assay	Info.	Price	Per
ESC55814		99.5%		15.95	250g

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		99%		500g



POTASSIUM CARBONATE ANHYDROUSK₂CO₃ = 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		99.5%		500g






POTASSIUM CHLORATE				
$\text{KClO}_3 = 122.55\text{g/mol}$				
				
UN Class: 5.1 /UN1485 PG-II		EC No.: 223-289-7		Danger
Cas No.: 3811-04-9		Index No.: 017-004-00-3		
Hazard: H271 H332 H302 H411				
Precaution: P220 P273				
Cat No.	Grade	Assay	Info.	Per
ESC55824		98%		500g



POTASSIUM CHLORIDE				
$\text{KCl} = 74.55\text{g/mol}$				
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		99%		500g
ESC55829		>99%		1kg



POTASSIUM CHROMATE				
$\text{K}_2\text{CrO}_4 = 194.19\text{g/mol}$				
				
UN Class: 6.1 /UN3288 PG-III		EC No.: 232-140-5		Danger
Cas No.: 7789-00-6		Index No.: 024-006-00-8		
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		99%		500g


TRI-POTASSIUM CITRATE				
$\text{C}_6\text{H}_5\text{K}_3\text{O}_7 \cdot \text{H}_2\text{O} = 324.41\text{g/mol}$				
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		99%		500g


POTASSIUM DICHROMATE				
$\text{K}_2\text{Cr}_2\text{O}_7 = 294.18\text{g/mol}$				
				
UN Class: 6.1 /UN3087 PG-II		EC No.: 231-906-6		Danger
Cas No.: 7778-50-9		Index No.: 024-002-00-6		
Hazard: H272 H350 H340 H360FD H330 H301 H372 H312 H314 H334 H317 H410				
Precaution: P201 P220 P260 P273 P280 P284				
Cat No.	Grade	Assay	Info.	Per
ESC55838		99%	SURCHARGE	250g

POTASSIUM DIHYDROGEN PHOSPHATE				
$\text{KH}_2\text{PO}_4 = 136.09\text{g/mol}$				
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		98%		500g

POTASSIUM FERRICYANIDE (POTASSIUM HEXACYANOFERRATE (III))				
$\text{K}_3\text{Fe}(\text{CN})_6 = 329.24\text{g/mol}$				
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		99%		100g
ESC55847		99%		250g

POTASSIUM FERROCYANIDE (POTASSIUM HEXACYANOFERRATE (II))				
$\text{K}_4\text{Fe}(\text{CN})_6 \cdot 3\text{H}_2\text{O} = 422.39\text{g/mol}$				
				
UN Class: N/A		EC No.: 237-722-2		Warning
Cas No.: 14459-95-1		Index No.: Not listed		
Hazard: EUH032				
Precaution: No additional precautions required				
Cat No.	Grade	Assay	Info.	Per
ESC55850		98.5%		250g

POTASSIUM HYDROGEN CARBONATE (POTASSIUM BICARBONATE)				
$\text{KHCO}_3 = 100.12\text{g/mol}$				
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		99.5%		500g

DI-POTASSIUM HYDROGEN PHOSPHATE				
$\text{K}_2\text{HPO}_4 = 174.18\text{g/mol}$				
UN Class: N/A		EC No.: 231-834-5		
Cas No.: 7758-11-4		Index No.: Not listed		
Hazard: Not considered hazardous				
Precaution: No additional precautions required				
Cat No.	Grade	Assay	Info.	Per
ESC55250		98%		500g



POTASSIUM HYDROGEN PHTHALATECOOH • C₆H₄ • COOK = 204.22g/mol

UN Class: N/A EC No.: 212-889-4
 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		99.5%		250g
ESC55861		99.5%		500g

POTASSIUM HYDROGEN SULPHATE (POTASSIUM BISULPHATE)KHSO₄ = 136.16g/mol

UN Class: 8 /UN2509 PG-II EC No.: 231-594-1 Danger
 Cas No.: 7646-93-7 Index No.: 016-056-00-4

Hazard: H314 H335
 Precaution: P261 P280 P305+P351+P338 P310

Cat No.	Grade	Assay	Info.	Per
ESC55865		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		98%		250g

POTASSIUM HYDROXIDE FLAKE

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
ESC55873		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		85%		250g
ESC55877		90%		500g

POTASSIUM IODATE (V)

UN Class: 5.1 /UN1479 PG-II EC No.: 231-831-9 Danger
 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		99%		100g

POTASSIUM IODATE (VII) (POTASSIUM PERIODATE)KIO₄ = 230g/mol

UN Class: 5.1 /UN1479 PG-II EC No.: 232-196-0 Danger
 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		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		99%		100g
ESC55890		99%		250g
ESC55891		99%		500g

POTASSIUM MANGANATE (VII) (POTASSIUM PERMANGANATE)KMnO₄ = 158.03g/mol

UN Class: 5.1 /UN1490 PG-II EC No.: 231-760-3 Danger
 Cas No.: 7722-64-7 Index No.: 025-002-00-9

Hazard: H272 H302 H410
 Precaution: P220 P273 P501

Cat No.	Grade	Assay	Info.	Per
ESC55893		99%	Powder	500g



POTASSIUM MANGANATE SOLUTION (VII)				
$\text{KMnO}_4 = 158.03\text{g/mol}$				
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				
Cat No.	Grade	Assay	Info.	Per
ESC55895		0.02M (0.1N)		1L

POTASSIUM PERSULPHATE (DIPOTASSIUM PEROXODISULPHATE)				
$\text{K}_2\text{S}_2\text{O}_8 = 270.32\text{g/mol}$				
UN Class: 5.1 / UN1492 PG-III		EC No.: 231-781-8		Danger
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		98%		500g

POTASSIUM METABISULPHITE (DIPOTASSIUM DISULPHITE)				
$\text{K}_2\text{S}_2\text{O}_5 = 222.32\text{g/mol}$				
UN Class: N/A		EC No.: 240-795-3		Warning
Cas No.: 16731-55-8		Index No.: Not listed		
Hazard: H315 H319 H335				
Precaution: P261 P305+P351+P338				
Cat No.	Grade	Assay	Info.	Per
ESC55897		96%		500g

POTASSIUM SODIUM TARTRATE (ROCHELLE SALT)				
$\text{KOCOCH(OH)CH(OH)COONa} \cdot 4\text{H}_2\text{O} = 282.22\text{g/mol}$				
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		99%		500g

POTASSIUM NITRATE				
$\text{KNO}_3 = 101.1\text{g/mol}$				
UN Class: 5.1 / UN1486 PG-III		EC No.: 231-818-8		Warning
Cas No.: 7757-79-1		Index No.: Not listed		
Hazard: H272				
Precaution: P220				
Cat No.	Grade	Assay	Info.	Per
ESC55899		99%		500g

POTASSIUM SULPHATE				
$\text{K}_2\text{SO}_4 = 174.26\text{g/mol}$				
UN Class: N/A		EC No.: 231-915-5		Danger
Cas No.: 7778-80-5		Index No.: Not listed		
Hazard: H314				
Precaution: P280 P310 P305+P351+P338				
Cat No.	Grade	Assay	Info.	Per
ESC55914		>98%		500g

POTASSIUM NITRITE				
$\text{KNO}_2 = 85.1\text{g/mol}$				
UN Class: 5.1 / UN1488 PG-II		EC No.: 231-832-4		Danger
Cas No.: 7758-09-0		Index No.: 007-011-00-X		
Hazard: H272 H301 H400				
Precaution: P220 P273 P301+P310				
Cat No.	Grade	Assay	Info.	Per
ESC55901		97%		100g

POTASSIUM THIOCYANATE				
$\text{KSCN} = 97.18\text{g/mol}$				
UN Class: N/A		EC No.: 206-370-1		Warning
Cas No.: 333-20-0		Index No.: 615-030-00-5		
Hazard: H332 H312 H302 H412				
Precaution: P273 P280				
Cat No.	Grade	Assay	Info.	Per
ESC55917		97%		500g

POTASSIUM OXALATE 1-WATER (POTASSIUM ETHANEDIOATE)				
$(\text{COOK})_2 \cdot \text{H}_2\text{O} = 184.23\text{g/mol}$				
UN Class: N/A		EC No.: 209-506-8		Warning
Cas No.: 6487-48-5		Index No.: Not listed		
Hazard: H302 H312				
Precaution: P280				
Cat No.	Grade	Assay	Info.	Per
ESC55904		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				
Precaution: No additional precautions required				
Cat No.	Grade	Assay	Info.	Per
ESC55919		98%		5g



PROPANAL (PROPIONALDEHYDE) $\text{CH}_3\text{CH}_2\text{CHO} = 58.08\text{g/mol}$ 

UN Class: 3 / UN1275 PG-II **EC No.:** 204-623-0 **Danger**
Cas No.: 123-38-6 **Index No.:** 605-018-00-8
Hazard: H225 H319 H335 H315
Precaution: P210 P261 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55928		97%		250ml

PROPANE-1-2-DIOL (PROPYLENE GLYCOL) $\text{CH}_3\text{CH}(\text{OH})\text{CH}_2\text{OH} = 76.1\text{g/mol}$

UN Class: N/A **EC No.:** 200-338-0
Cas No.: 57-55-6 **Index No.:** Not listed

Hazard: Not considered hazardous
Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55932		99%		500ml

PROPIONIC ACID (PROPANOIC ACID) $\text{CH}_3\text{CH}_2\text{COOH} = 74.08\text{g/mol}$ 

UN Class: 8(3) / UN3463 PG-II **EC No.:** 201-176-3 **Danger**
Cas No.: 79-09-4 **Index No.:** 607-089-00-0
Hazard: H314
Precaution: P280 P305+P351+P338 P310

Cat No.	Grade	Assay	Info.	Per
ESC55935		99%		250ml
ESC55936		99%		500ml

PROPAN-1-OL (N-PROPYL ALCOHOL) $\text{CH}_3\text{CH}_2\text{CH}_2\text{OH} = 60.1\text{g/mol}$ 

UN Class: 3 / UN1274 PG-II **EC No.:** 200-746-9 **Danger**
Cas No.: 71-23-8 **Index No.:** 603-003-00-0
Hazard: H225 H318 H336
Precaution: P210 P261 P280 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55921		99%		500ml

PROPAN-2-OL (ISO-PROPYL ALCOHOL) $(\text{CH}_3)_2\text{CHOH} = 60.1\text{g/mol}$ 

UN Class: 3 / UN1219 PG-II **EC No.:** 200-661-7 **Danger**
Cas No.: 67-63-0 **Index No.:** 603-117-00-0
Hazard: H225 H319 H336
Precaution: P210 P261 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55924		99.5%		1L
ESC55925		99.5%		2.5L

PYRIDINE $\text{C}_5\text{H}_5\text{N} = 79.1\text{g/mol}$ 

UN Class: 3 / UN1282 PG-II **EC No.:** 203-809-9 **Danger**
Cas No.: 110-86-1 **Index No.:** 613-002-00-7
Hazard: H225 H332 H312 H302
Precaution: P210

Cat No.	Grade	Assay	Info.	Per
ESC55939		99%		500ml

PYROGALLOL (1,2,3-TRIHYDROXYBENZENE) $\text{C}_6\text{H}_3(\text{OH})_3 = 126.11\text{g/mol}$ 

UN Class: 6.1 / UN2811 PG-III **EC No.:** 201-762-9 **Warning**
Cas No.: 87-66-1 **Index No.:** 604-009-00-6
Hazard: H341 H332 H312 H302 H412
Precaution: P273 P281

Cat No.	Grade	Assay	Info.	Per
ESC55941		99%		100g

QUININE $\text{C}_{20}\text{H}_{24}\text{N}_2\text{O}_2 \cdot 3\text{H}_2\text{O} = 378.47\text{g/mol}$ 

UN Class: N/A **EC No.:** 205-003-2 **Warning**
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		97%		1g

RENNET POWDER $\text{C}_{20}\text{H}_{24}\text{N}_2\text{O}_2 \cdot 3\text{H}_2\text{O} = 378.47\text{g/mol}$ 

UN Class: N/A **EC No.:** 232-645-0 **Danger**
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		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		N/A	pH 4.2-6.3	25 pk
ESC55948		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		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		N/A		250ml

SAFRANIN O STAIN C.I.50240 (BASIC RED 2) $C_{20}H_{12}N_2O_2 \cdot 3H_2O = 378.47g/mol$ 

UN Class: N/A **EC No.:** 207-518-8 **Danger**
Cas No.: 477-73-6 **Index No.:** Not listed

Hazard: H318
Precaution: P280 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55956		N/A	Powder	5g

SCHULTZE'S SOLUTION (CHLOR-ZINC-IODINE SOLUTION)

N/A



UN Class: N/A **EC No.:** N/A **Danger**
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		N/A		100ml

SAFRANIN O 1% AQUEOUS SOLUTION

UN Class: N/A **EC 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		1%	Solution	100ml

SEBACOYL CHLORIDE

N/A



UN Class: 8 /UN3265 PG-II **EC No.:** 203-843-4 **Danger**
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		97%		25ml

SALICYLIC ACID (2-HYDROXYBENZOIC ACID) $C_6H_4(OH)COOH = 138.12g/mol$ 

UN Class: N/A **EC No.:** 200-712-3 **Danger**
Cas No.: 69-72-7 **Index No.:** Not listed

Hazard: H302 H318
Precaution: P280 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC55959		99%		100g
ESC55961		99%		500g
ESC55962		99.5%		1kg

SEBACOYL CHLORIDE 5% IN CYCLOHEXANE

N/A



UN Class: 3 /UN1145 PG-II **EC No.:** N/A **Danger**
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		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		N/A	pH 4.2-6.3	5kg
ESC55964		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
Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55976		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		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		97%		500g

SILICA GEL SELF-INDICATING (ORANGE) (ORANGE TO COLOURLESS)

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
ESC55981		97%		500g

SILICON (IV) OXIDE (SILICON DIOXIDE)SiO₂ = 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		97%		250g

SILVER WIRE

Ag = 107.87g/mol

UN Class: N/A EC No.: 231-131-3
 Cas No.: 7440-22-4 Index No.: Not listed

Hazard: Not considered hazardous
 Precaution: No additional precautions required
 Notes: Approximately 150mm

Cat No.	Grade	Assay	Info.	Per
ESC55987		N/A		10g

SILVER NITRATEAgNO₃ = 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		99.9%		10g
ESC55994		99.9%		25g
ESC55996		99.9%		100g

SILVER NITRATE 0.1M (0.1N) SOLUTIONAgNO₃ = 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		0.1M	0.1M (0.1N)	500ml
ESC55991		0.1M	0.1M (0.1N)	2.5L

SILVER SULPHATEAg₂SO₄ = 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		98.5%		10g

SOAP SOLUTION

N/A










UN Class: 3 /UN1170 PG-II EC No.: N/A Danger
 Cas No.: N/A Index No.: Not listed



Hazard: H225 H371
 Precaution: P210 P260



Cat No.	Grade	Assay	Info.	Per
ESC55999		N/A	Clark's	1L
ESC56000		N/A	Wanklyn's	1L







SODA LIME				
N/A				
UN Class: 8 /UN1907 PG-III		EC No.: N/A		Danger
Cas No.: 8006-28-8		Index No.: Not listed		
Hazard: H314				
Precaution: P280 P305+P351+P338 P310				
Cat No.	Grade	Assay	Info.	Per
ESC56001		98%	Granulated	500g
ESC56002		98%	Self-Indicating	1kg

SODIUM METAL IN LIQUID PARAFFIN				
Na = 22.99g/mol				 
UN Class: 4.3 /UN1428 PG-I		EC No.: 231-132-9		Danger
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		99%	SURCHARGE	50g
ESC56006		99%	SURCHARGE	100g

SODIUM ACETATE ANHYDROUS (SODIUM ETHANOATE)				
CH ₃ COONa = 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		98%		500g





SODIUM ALGINATE				
UN Class: N/A		EC No.: N/A		
Cas No.: 9005-38-3		Index No.: Not listed		
Hazard: Not considered hazardous				
Precaution: No additional precautions required				
Cat No.	Grade	Assay	Info.	Per
ESC56018		97%		100g
ESC56020		97%		500g





SODIUM AZIDE				
NaN ₃ = 65.01g/mol				 
UN Class: 6.1 /UN1687 PG-II		EC No.: 247-852-1		Danger
Cas No.: 26628-22-8		Index No.: 011-004-00-7		
Hazard: H300 H400 H410 EUH032				
Precaution: P273 P501				
Cat No.	Grade	Assay	Info.	Per
ESC56022		99%		100g



SODIUM BENZOATE				
C ₆ H ₅ COONa = 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		99%		500g

SODIUM BICARBONATE SEE SODIUM HYDROGEN CARBONATE

SODIUM BISULPHATE SEE SODIUM HYDROGEN SULPHATE

SODIUM BOROHYDRIDE (SODIUM TETRAHYDRIDOBORATE)				
NaBH ₄ = 37.83g/mol				  
UN Class: 4.3 /UN1426 PG-I		EC No.: 241-004-4		Danger
Cas No.: 16940-66-2		Index No.: Not listed		
Hazard: H260 H301 H311 H314				
Precaution: P223 P231+P232 P280 P301+P310				
Cat No.	Grade	Assay	Info.	Per
ESC56027		99%	SURCHARGE	100g

SODIUM BROMATE				
NaBrO ₃ = 150.89g/mol				  
UN Class: 5.1 /UN1494 PG-II		EC No.: 232-160-4		Danger
Cas No.: 7789-38-0		Index No.: Not listed		
Hazard: H272 H302 H315 H319 H335				
Precaution: P220 P261 P305+P351+P338				
Cat No.	Grade	Assay	Info.	Per
ESC56030		99%		500g

SODIUM BROMIDE				
NaBr = 102.89g/mol				
UN Class: N/A		EC No.: 231-599-9		Warning
Cas No.: 7647-15-6		Index No.: Not listed		
Hazard: H319				
Precaution: P305+P351+P338				
Cat No.	Grade	Assay	Info.	Per
ESC56034		99%		500g



SODIUM CARBONATE 10-WATER $\text{Na}_2\text{CO}_3 \cdot 10\text{H}_2\text{O} = 286.14\text{g/mol}$ 

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		98%	Clark's	1kg

SODIUM CARBONATE ANHYDROUS $\text{Na}_2\text{CO}_3 = 105.99\text{g/mol}$ 

UN Class: N/A **EC No.:** 207-838-8 **Warning**
Cas No.: 497-19-8 **Index No.:** 011-005-00-2
Hazard: H319
Precaution: P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC56044		99%		500g
ESC56045		99%		1kg

SODIUM CHLORATE (V) $\text{NaClO}_3 = 106.44\text{g/mol}$ 

UN Class: 5.1 /UN1495 PG-II **EC No.:** 231-887-4 **Danger**
Cas No.: 7775-09-9 **Index No.:** 017-005-00-9
Hazard: H271 H302 H411
Precaution: P220 P273

Cat No.	Grade	Assay	Info.	Per
ESC56049		99%		500g

SODIUM CHLORIDE $\text{NaCl} = 58.44\text{g/mol}$

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		99%		500g
ESC56054		99%		1kg

MANGANESE (II) CARBONATE $\text{MnCO}_3 = 114.95\text{g/mol}$

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		93%		500g

SODIUM CHLORIDE - GRANULAR $\text{NaCl} = 58.44\text{g/mol}$

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
Notes: Large Granules - 0.5-2cm grains
 Not suitable for human consumption

Cat No.	Grade	Assay	Info.	Per
ESC56056		98%	Granular	1kg

SODIUM CHLORIDE - ROCK SALT (SODIUM CHLORIDE TECHNICAL)

UN Class: N/A **EC No.:** 231-598-3
Cas No.: 7647-17-5 **Index No.:** Not listed
Hazard: Not considered hazardous
Precaution: No additional precautions required
Notes: Not suitable for human consumption

Cat No.	Grade	Assay	Info.	Per
ESC56058		97%		1kg
ESC56059		97%		500g

SODIUM CHROMATE 4-WATER $\text{Na}_2\text{CrO}_4 \cdot 4\text{H}_2\text{O} = 234.03\text{g/mol}$ 

UN Class: 6.1 /UN3288 PG-II **EC No.:** 231-889-5 **Danger**
Cas No.: 10034-82-9 **Index No.:** 024-018-00-3
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		96%		250g

TRI-SODIUM CITRATE 2-WATER $\text{HOC}(\text{COONa})(\text{CH}_2\text{COONa})_2 \cdot 2\text{H}_2\text{O} = 294.1\text{g/mol}$

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		99%		500g



SODIUM DICHROMATE (VI) ANHYDROUS $\text{Na}_2\text{Cr}_2\text{O}_7 = 268\text{g/mol}$ 

UN Class: 6.1(5.1)/UN3086 PG-II **EC No.:** 234-190-3 **Danger**
Cas No.: 10588-01-9 **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		99%		500g

SODIUM DIHYDROGEN PHOSPHATE 2-WATER $\text{NaH}_2\text{PO}_4 \cdot 2\text{H}_2\text{O} = 156.01\text{g/mol}$

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		98%		500g

SODIUM DIHYDROGEN PHOSPHATE ANHYDROUS $\text{NaH}_2\text{PO}_4 = 119.98\text{g/mol}$ 

UN Class: N/A **EC No.:** 231-449-2 **Warning**
Cas No.: 7558-80-7 **Index No.:** Not listed
Hazard: H319
Precaution: P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC56070		98%		1kg

SODIUM DODECYL SULPHATE (SODIUM LAURYL SULPHATE) $\text{CH}_3(\text{CH}_2)_{11}\text{OSO}_3\text{Na} = 288.38\text{g/mol}$ 

UN Class: 4.1 /UN2926 PG-II **EC No.:** 205-788-1 **Danger**
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		98%		500g

SODIUM FLORIDE $\text{NaF} = 41.99\text{g/mol}$ 

UN Class: 6.1 /UN1690 PG-III **EC No.:** 231-667-8 **Danger**
Cas No.: 7681-49-4 **Index No.:** 009-004-00-7
Hazard: H301 H319 H315
Precaution: P301+P310 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC56075		98%		500g

SODIUM FORMATE $\text{HCOONa} = 68.01\text{g/mol}$

UN Class: N/A **EC No.:** 205-488-0
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		98%		500g

SODIUM HYDROGEN CARBONATE (SODIUM BICARBONATE) $\text{NaHCO}_3 = 84.01\text{g/mol}$

UN Class: N/A **EC No.:** 205-633-8
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		99%		500g
ESC56086		99%		1kg

DI-SODIUM HYDROGEN PHOSPHATE 2-WATER $\text{Na}_2\text{HPO}_4 \cdot 2\text{H}_2\text{O} = 177.99\text{g/mol}$

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		98%		500g

DI-SODIUM HYDROGEN PHOSPHATE 12-WATER $\text{Na}_2\text{HPO}_4 \cdot 12\text{H}_2\text{O} = 358.14\text{g/mol}$

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		98%		1kg

DI-SODIUM HYDROGEN PHOSPHATE ANHYDROUS $\text{Na}_2\text{HPO}_4 = 141.96\text{g/mol}$

UN Class: N/A **EC No.:** 231-448-7
Cas No.: 7558-79-4 **Index No.:** Not listed
Hazard: Not considered hazardous
Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC55252		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

Cat No.	Grade	Assay	Info.	Per
ESC56082		98%		500g

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		96%	Pearl powder	500g

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
Hazard: H314
Precaution: P280 P305+P351+P338 P310

Cat No.	Grade	Assay	Info.	Per
ESC56093		97%		500g

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		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 x 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		0.1M	Ampoule	15.95	6

SODIUM HYDROXIDE 1.0M (1.0N) CVS

NaOH = 40g/mol



UN Class: 8 /UN1824 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
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
ESC56090		1.0M	Ampoule	6

SODIUM HYDROXIDE 2.0M (2.0N)

NaOH = 40g/mol



UN Class: 8 /UN1824 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
ESC56091		2.0M		1L

SODIUM HYDROXIDE 40% SOLUTION

NaOH = 40g/mol



UN Class: 8 /UN1824 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
ESC56097		0.4%		1L

SODIUM HYPOCHLORITE SOLUTION

NaClO = 74.44g/mol



UN Class: 8 /UN1791 PG-III **EC No.:** 231-668-3 **Danger**
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+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC56099		10 - 15%		2.5L



SODIUM IODATE				
$\text{NaIO}_3 \cdot \text{H}_2\text{O} = 215.91\text{g/mol}$				
UN Class: 5.1 / UN1479 PG-II		EC No.: 231-672-5		Danger
Cas No.: 7681-55-2		Index No.: Not listed		
Hazard: H272 H302 H334 H317				
Precaution: P220 P261 P342+P311				
Cat No.	Grade	Assay	Info.	Per
ESC56101		99.5%		100g

SODIUM NITRITE				
$\text{NaNO}_2 = 69\text{g/mol}$				
UN Class: 5.1 / UN1500 PG-III		EC No.: 231-555-9		Danger
Cas No.: 7632-00-0		Index No.: 007-010-00-4		
Hazard: H272 H301 H400				
Precaution: P220 P273				
Cat No.	Grade	Assay	Info.	Per
ESC56112		98%		500g

SODIUM IODIDE				
$\text{NaI} = 149.89\text{g/mol}$				
UN Class: N/A		EC No.: 231-679-3		Warning
Cas No.: 7681-82-5		Index No.: Not listed		
Hazard: H315 H319 H400				
Precaution: P305+P351+P338				
Cat No.	Grade	Assay	Info.	Per
ESC56103		99%		100g

SODIUM OXALATE (SODIUM ETHANEDIOATE)				
$\text{NaOCCOONa} = 134\text{g/mol}$				
UN Class: 6.1 / UN3467 PG-III		EC No.: 200-550-3		Warning
Cas No.: 62-76-0		Index No.: 607-007-00-3		
Hazard: H312 H302				
Precaution: P280				
Cat No.	Grade	Assay	Info.	Per
ESC56114		99.5%		500g

SODIUM METABISULPHITE (SODIUM DISULPHITE)				
$\text{Na}_2\text{S}_2\text{O}_5 = 190.11\text{g/mol}$				
UN Class: N/A		EC No.: 231-673-0		Danger
Cas No.: 7681-57-4		Index No.: 016-063-00-2		
Hazard: H302 H318				
Precaution: P280 P305+P351+P338				
Cat No.	Grade	Assay	Info.	Per
ESC56108		98.5%		500g

SODIUM PERSULPHATE (SODIUM PEROXODISULPHATE)				
$\text{Na}_2\text{S}_2\text{O}_8 = 238.1\text{g/mol}$				
UN Class: 5.1 / UN1505 PG-III		EC No.: 231-892-1		Danger
Cas No.: 7775-27-1		Index No.: Not listed		
Hazard: H272 H302 H315 H317 H319 H334 H335				
Precaution: P220 P261 P280 P305+P351+P338 P342+P311				
Cat No.	Grade	Assay	Info.	Per
ESC56117		96%		500g

SODIUM NITRATE				
$\text{NaNO}_3 = 84.99\text{g/mol}$				
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		98%		500g

TRI-SODIUM PHOSPHATE 12-WATER				
$\text{Na}_3\text{PO}_4 \cdot 12\text{H}_2\text{O} = 380.12\text{g/mol}$				
UN Class: N/A		EC No.: 231-509-8		Warning
Cas No.: 10101-89-0		Index No.: Not listed		
Hazard: H315 H319 H335				
Precaution: P305+P351+P338				
Cat No.	Grade	Assay	Info.	Per
ESC56248		98%		500g

SODIUM SALICYLATE (SODIUM 2-HYDROXYBENZOATE)				
$\text{HOC}_6\text{H}_4\text{COONa} = 160.1\text{g/mol}$				
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		99%		250g



SODIUM SILICATE SOLUTION (SODIUM TRISILICATE) $\text{Na}_2\text{O} \cdot 3\text{SiO}_2 = 242.33\text{g/mol}$ 

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		98%		2.5L

SODIUM SILICATE POWDER (SODIUM METASILICATE) $\text{Na}_2\text{SiO}_2 = 122.06\text{g/mol}$ 

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		98%		500g

SODIUM SULPHATE ANHYDROUS $\text{Na}_2\text{SO}_4 = 142.04\text{g/mol}$

UN Class: N/A **EC No.:** 231-820-9
Cas No.: 7757-82-6 **Index No.:** Not listed

Hazard: Not considered hazardous
Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC56134		99%		500g

SODIUM SULPHIDE 9-WATER $\text{Na}_2\text{S} \cdot 9\text{H}_2\text{O} = 240.18\text{g/mol}$ 

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		95%		500g

SODIUM SULPHITE ANHYDROUS (SODIUM SULPHITE (IV)) $\text{Na}_2\text{SO}_3 = 126.04\text{g/mol}$ 

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		96%		500g

SODIUM TAUROGLYCOCHOLATE**SEE BILE SALTS****DI-SODIUM TETRABORATE 10-WATER (BORAX POWDER)** $\text{Na}_2\text{B}_4\text{O}_7 \cdot 10\text{H}_2\text{O} = 381.37\text{g/mol}$ 

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		98%		500g

SODIUM THIOSULPHATE 5-WATER $\text{Na}_2\text{S}_2\text{O}_3 \cdot 5\text{H}_2\text{O} = 248.18\text{g/mol}$

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		99%		500g
ESC56144		99%		1kg

SODIUM THIOSULPHATE ANHYDROUS $\text{Na}_2\text{S}_2\text{O}_3 = 158.11\text{g/mol}$

UN Class: N/A **EC No.:** 231-867-5
Cas No.: 7772-98-7 **Index No.:** Not listed

Hazard: Not considered hazardous
Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC56146		97%		500g

SODIUM THIOSULPHATE 0.1M (0.1N) $\text{Na}_2\text{S}_2\text{O}_3 = 158.11\text{g/mol}$

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		0.1M		1L

SODIUM THIOSULPHATE 1M (1N) $\text{Na}_2\text{S}_2\text{O}_3 = 158.11\text{g/mol}$

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		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		97%		500ml

SOLOCHROME BLACK SEE ERIOCHROME BLACK T

STANNIC SEE TIN (IV)

STANNOUS SEE TIN (II)

STARCH

$(C_6H_{10}O_5)_n$

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		N/A		100g
ESC56151		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		N/A	Soluble	500g

SASTEARIC ACID (OCTADECANOIC ACID)TARCH

$CH_3(CH_2)_{16}COOH = 284.48g/mol$



UN Class: N/A **EC No.:** 200-313-4 **Warning**
Cas No.: 57-11-4 **Index No.:** Not listed
Hazard: H315
Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC56158		93%		500g
ESC56159		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		N/A		450g

STRONTIUM CARBONATE

$SrCO_3 = 147.63g/mol$

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		97%		100g

STRONTIUM CHLORIDE 6-WATER

$SrCl_2 \cdot 6H_2O = 266.62g/mol$



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		95%		100g

STRONTIUM NITRATE

$Sr(NO_3)_2 = 211.63g/mol$



UN Class: 5.1 /UN1507 PG-III **EC No.:** 233-131-9 **Warning**
Cas No.: 10042-76-9 **Index No.:** Not listed

Hazard: H272 H302 H315 H319 H335
Precaution: P220 P261 P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC56169		99%		100g

STYRENE MONOMER (PHENYLETHYLENE)

$C_6H_5CH=CH_2 = 104.15g/mol$



UN Class: 3 /UN2055 PG-III **EC No.:** 202-851-5 **Warning**
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		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
Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC56173		N/A		1kg
ESC56174		N/A		5kg



SUCCINIC ACID (BUTANEDIOIC ACID)HOOCCH₂CH₂COOH = 118.09g/mol

UN Class: N/A **EC No.:** 203-740-4 **Danger**
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		99%		100g

SULPHANILIC ACID (4-AMINO BENZENE SULPHONIC ACID)4-(H₂N)C₆H₄SO₃H = 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		99 %		500g

SUDAN (III) C.I.26100C₂₂H₁₆N₄O = 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		N/A		100g

SULPHUR FINE POWDER

S = 32.07g/mol



UN Class: 4.1 /UN1350 PG-III **EC No.:** 231-722-6 **Warning**
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		N/A		500g

SUDAN III ALCOHOLIC SOLUTIONC₂₂H₁₆N₄O = 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		N/A		100ml

SULPHURIC ACID 98%H₂SO₄ = 98g/mol

UN Class: 8 /UN1830 PG-II **EC No.:** 231-639-5 **Danger**
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		98%		2.5L

SUDAN IV C.I.26105C₂₄H₂₀N₄O = 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		N/A		100g

SULPHURIC ACID 0.05M (0.1N)H₂SO₄ = 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		0.05M		2.5L

SULPHAMIC ACID (AMIDOSULPHONIC ACID)NH₂SO₃H = 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		99%		500g



SULPHURIC ACID 0.05M (0.1N) CVSH₂SO₄ = 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: 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		0.05M	Ampoule	6






SULPHURIC ACID 0.5M (1.0N)				
$H_2SO_4 = 98.08g/mol$ 				
UN Class: 8 /UN2796 PG-II		EC No.: 231-639-5		Warning
Cas No.: 7664-93-9		Index No.: 016-020-00-8		
Hazard: H315 H319 Precaution: P280 P305+P351+P338				
Cat No.	Grade	Assay	Info.	Per
ESC56190		0.5M		2.5L




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		0.5M	Ampoule	6




SULPHURIC ACID 1M (2N)				
$H_2SO_4 = 98.08g/mol$ 				
UN Class: 8 /UN2796 PG-II		EC No.: 231-639-5		Warning
Cas No.: 7664-93-9		Index No.: 016-020-00-8		
Hazard: H315 H319 Precaution: P280 P305+P351+P338				
Cat No.	Grade	Assay	Info.	Per
ESC56196		1.0M		500ml



SULPHURIC ACID 2M (4N)				
$H_2SO_4 = 98.08g/mol$ 				
UN Class: 8 /UN2796 PG-II		EC No.: 231-639-5		Danger
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
ESC56198		2.0M		500ml





TANNIC ACID				
$C_76H_{52}O_{46} = 1701.2g/mol$				
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		98%		100g

L-(-)-TARTARIC ACID (2,3-DIHYDROXYBUTANEDIOIC ACID)				
$HO_2CCH(OH)CH(OH)CO_2H = 150.09g/mol$ 				
UN Class: N/A		EC No.: 201-766-0		Warning
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		99%		500g

TETRACHLOROETHYLENE				
$CCl_2=CCl_2 = 165.83g/mol$  				
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		98%		1L

TETRAHYDROFURAN (OXOLANE)				
$C_4H_8O = 72.11g/mol$   -17°C				
UN Class: 3 /UN2056 PG-II		EC No.: 203-726-8		Danger
Cas No.: 109-99-9		Index No.: 603-025-00-0		
Hazard: H225 H319 H335 EUH019 Precaution: P210 P261 P305+P351+P338				
Cat No.	Grade	Assay	Info.	Per
ESC56205		99%		1L

TETRAZOLIUM SALT (2,3,5-TRIPHENYLTETRAZOLIUM CHLORIDE)				
$[C_{18}H_{15}CN(N(C_6H_5)_2)_2N]Cl \cdot H_2O = 334.8g/mol$ 				
UN Class: N/A		EC No.: 206-071-6		Warning
Cas No.: 298-96-4		Index No.: Not listed		
Hazard: H315 H319 H335 Precaution: P261 P305+P351+P338				
Cat No.	Grade	Assay	Info.	Per
ESC56207		98%		25g


THIOUREA (THIOCARBAMIDE)				
$NH_2CSNH_2 = 76.12g/mol$   				
UN Class: 6.1 /UN2811 PG-III		EC No.: 200-543-5		Warning
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		98%		100g



L-THREONINE $\text{CH}_3\text{CH}(\text{OH})\text{CH}(\text{NH}_2)\text{CO}_2\text{H} = 119.12\text{g/mol}$

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		N/A		25g

THYMOL $2[(\text{CH}_3)_2\text{CH}]_2\text{C}_6\text{H}_3-5-(\text{CH}_3)\text{OH} = 150.22\text{g/mol}$ 

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		99.5%		100g

THYMOL BLUE $\text{C}_{27}\text{H}_{30}\text{O}_5\text{S} = 466.59\text{g/mol}$

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		N/A		25g

THYMOL BLUE 0.04% INDICATOR 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
ESC56213		0.04%	Solution	500ml

THYMOLPHTHALEIN $\text{C}_{28}\text{H}_{30}\text{O}_4 = 430.54\text{g/mol}$

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		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		99.5%	Foil 0.035mm	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		99.5%	Granulated	100g


TIN METAL - POWDER

Sn = 118.71g/mol



UN Class: N/A EC No.: 231-141-8 Warning
 Cas No.: 7440-31-5 Index No.: Not listed


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

Cat No.	Grade	Assay	Info.	Per
ESC56227		99%	Powder	1g

TITANIUM (IV) OXIDE (TITANIUM DIOXIDE) $\text{TiO}_2 = 79.87\text{g/mol}$

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		98%		500g

TOLUENE (METHYL BENZENE) $\text{C}_6\text{H}_5\text{CH}_3 = 92.14\text{g/mol}$ 

UN Class: 3 /UN1294 PG-II EC No.: 203-625-9 Danger
 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		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		N/A		25g

TRIETHYLAMINE

 $(C_2H_5)_3N = 101.19g/mol$ 

UN Class: 3 /UN1296 PG-II **EC No.:** 204-469-4 **Danger**
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		97%		500ml

2-2-4-TRIMETHYLPENTANE (ISO-OCTANE)

 $(CH_3)_2CHCH_2C(CH_3)_3 = 114.23g/mol$ 

UN Class: 3 /UN1262 PG-II **EC No.:** 203-892-1 **Danger**
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		99%		1L

TRICHLOROACETIC ACID

 $CCl_3COOH = 163.39g/mol$ 

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		98%		100g

L-TRYPTOPHAN

UN Class: N/A **EC No.:** 200-795-6
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		99%		25g

TRICHLOROETHYLENE (TCE)

 $ClCH=CCl_2 = 131.39g/mol$ 

UN Class: 6.1 /UN1710 PG-III **EC No.:** 201-167-4 **Danger**
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		97%		1L

L-TYROSINE

N/A



UN Class: N/A **EC No.:** 200-460-4 **Warning**
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		98.5%		25g

UNIVERSAL INDICATOR SOLUTION PH 4 - 11

N/A



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		pH 4-11 Indicator Solution	500ml
ESC56262		pH 4-11 Indicator Solution	1L

TRIETHANOLAMINE (TRIS(2-HYDROXYETHYL)AMINE)

 $N(CH_2CH_2OH)_3 = 149.19g/mol$ 


UN Class: N/A **EC No.:** 203-049-8 **Warning**
Cas No.: 102-71-6 **Index No.:** Not listed
Hazard: H319
Precaution: P305+P351+P338

Cat No.	Grade	Assay	Info.	Per
ESC56251		97%		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		98%		1g
ESC562665		98%		5g

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		99%		500g

L-VALINE

$(CH_3)_2CHCH(NH_2)COOH = 117.15g/mol$


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		99%		25g

VANILLIN (4-HYDROXY-3-METHOXYBENZALDEHYDE)

$C_8H_8O_3 = 152.15g/mol$



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		N/A		100g

WATER DEIONISED

$H_2O = 18.02g/mol$


UN Class: N/A **EC No.:** N/A
Cas No.: 7732-18-6 **Index No.:** Not listed

Hazard: Not considered hazardous
Precaution: No additional precautions required

Cat No.	Grade	Assay	Info.	Per
ESC56271		N/A		20L

WHITE SPIRIT

N/A



UN Class: 3 /UN1300 PG-III **EC No.:** 265-185-4 Danger
Cas No.: 64742-82-1 **Index No.:** 649-330-00-2


Hazard: H226 H304 H336 H411
Precaution: P261 P273 P301+P310 P331

39°C

Cat No.	Grade	Assay	Info.	Per
ESC56272		N/A		1L
ESC56273		N/A		2.5L

XYLENE (DIMETHYLBENZENE)

$C_6H_4(CH_3)_2 = 106.17g/mol$



UN Class: 3 /UN1307 PG-III **EC No.:** 215-535-7 Danger
Cas No.: 1330-20-7 **Index No.:** 601-022-00-9

Hazard: H226 H332 H312 H315
Precaution: P280

33°C

Cat No.	Grade	Assay	Info.	Per
ESC56277		98%		1L
ESC56278		98%		5L

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		N/A		100g
ESC56282		N/A		500g

ZINC METAL - FOIL

$Zn = 65.39g/mol$

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
ESC56290		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		99.9%	Granules	500g

ZINC METAL - POWDER				
$Zn = 65.39g/mol$				
UN Class: 4.3(4.2) /UN1436 PG-II		EC No.: 231-175-3		Warning
Cas No.: 7440-66-6		Index No.: 030-001-00-1		
Hazard: H260 H250 H410				
Precaution: P222 P223				
Cat No.	Grade	Assay	Info.	Per
ESC56288		99%	SURCHARGE	100g

ZINC ACETATE (ZINC ETHANOATE)				
$Zn(CH_3COO)_2 \cdot 2H_2O = 219.5g/mol$				
UN Class: 9 /UN3077 PG-III		EC No.: 209-170-2		Warning
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		98.5%		500g

ZINC BROMIDE				
$ZnBr_2 = 225.2g/mol$				
UN Class: 8 /UN3260 PG-III		EC No.: 231-718-4		Danger
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		98%		500ml

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		54%		500g

ZINC CHLORIDE				
$ZnCl_2 = 136.3g/mol$				
UN Class: 8 /UN2331 PG-III		EC No.: 231-592-0		Danger
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		97.5%		500g

ZINC NITRATE 6-WATER				
$Zn(NO_3)_2 \cdot 6H_2O = 297.49g/mol$				
UN Class: 5.1 /UN1514 PG-II		EC No.: 231-943-8		Danger
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		98%		500g

ZINC OXIDE				
$ZnO = 81.39g/mol$				
UN Class: 9 /UN3077 PG-III		EC No.: 215-222-5		Warning
Cas No.: 1314-13-2		Index No.: 030-013-00-7		
Hazard: H410				
Precaution: P271 P501				
Cat No.	Grade	Assay	Info.	Per
ESC563112		99.8%		500g

ZINC SULPHATE 7-WATER				
$ZnSO_4 \cdot 7H_2O = 287.54g/mol$				
UN Class: 9 /UN3077 PG-III		EC No.: 231-793-3		Danger
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		98%		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				
Precaution: No additional precautions required				
Cat No.	Grade	Assay	Info.	Per
ESC56320		N/A		500g





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- **Appliances**





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
- ESL56330 Size : 16 X 160MM
- ESL56330EU Size : 16 X 160MM



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

NEW

- 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(ML) division: 0.1

- ESL56348 Capacity: 25 ML
- ESL56349 Capacity: 50 ML



Culture Tube Round Bottom With Aluminum Stopper GL Thread

NEW

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.

- 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
- ESL56355 Capacity: 100 ML



Burette Class As

With PTFE Key Stopcock
Un serialized, graduation interval 0.2ML, tolerance +/- 0.1ML

- ESL56361 Capacity: 10 ML
- 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(ML)

- 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
- ESL56369 Capacity : 50 ML



Pipette Volumetric

Pipette bulb small, 5ml, (pack of 10)

ESL56371



Pipette Graduated (Serological), Class B

	Capacity	Subdivision	Tolerance	colour
ESL56372	1 ML,	0.1ML,	- 0.02ML	green
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
ESL56377	50 ML,	0.1ML,	- 0.01ML	white



NEW



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



- ESL56378 Capacity : 1 ML,
- ESL56379 Capacity : 2 ML,
- ESL56380 Capacity : 3 ML,

Pipette Transfer

Disposable Graduated Transfer Pipette Individually Wrapped in a peel off pouch-Sterile.



- ESL56383 Capacity : 1 ML,
- ESL56384 Capacity : 2 ML,
- ESL56385 Capacity : 3 ML,

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



NEW

ESL56389



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,



Pipette Stand Rotary Vertical

Pipette stand rotary vertical pp, 94 places

ESL56395



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	0M	20-100ML
ESL56422	250 ML	5ML	50-225ML
ESL56423	500 ML	50ML	100-500ML
ESL56424	1000 ML	50ML	250-1000ML

Flask Erlenmeyer Narrow Neck

Erlenmeyer Flasks, Narrow Neck with graduation DIN ISO 1773 with Reinforced thick Rim to reduce chipping & breakage.

- ESL56412 Capacity : 50 ML
- ESL56413 Capacity : 100 ML
- ESL56414 Capacity : 250 ML
- ESL56415 Capacity : 500 ML
- ESL56416 Capacity : 1000 ML



NEW

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



NEW



Erlenmeyer Flask with Screw-Cap

Erlenmeyer Flask with Screw-Cap

	Capacity	Standard joint	Red screw-cap
ESL56411/100	100 ML	(NS) : 25	heat resistance up to 180°C
ESL56411/250	250 ML	(NS) : 32	heat resistance up to 180°C
ESL56411/500	500 ML	(NS) : 32	heat resistance up to 180°C
ESL56411/1L	1000ML	(NS) : 32	heat resistance up to 180°C

NEW



Flask Erlenmeyer PMP, PP, with screw cap

Flask Erlenmeyer PMP, PP, with screw cap

	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

NEW



Flask Erlenmeyer Round Bottom Wide Neck

Flask Round Bottom Wide neck, with beaded rim DIN 12347, DIN ISO 1773,

ESL56428W	Capacity : 100 ML
ESL56429W	Capacity : 250 ML
ESL56430W	Capacity : 500 ML
ESL56431W	Capacity : 1000 ML



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 Round Bottom Narrow Neck

Flask Round Bottom narrow neck, with beaded rim DIN 12347, DIN ISO 1773.

ESL56433	Capacity : 100 ML
ESL56434	Capacity : 250 ML
ESL56435	Capacity : 500 ML
ESL56436	Capacity : 1000 ML
ESL56437	Capacity : 2000 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 Borosilicate glass 3.3 Class A , With Polypropylene stopper and Lot Certificate

ESL56448	Capacity : 10 ML	NS 12/21
ESL56449	Capacity : 25 ML	NS 12/21
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 , Borosilicate glass 3.3 Class B With 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)

NEW

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 1ML, Tolerance +/- 0.25ML
ESL56501	Capacity : 50 ML	Graduation Interval 1ML, Tolerance +/- 0.25ML
ESL56502	Capacity : 100 ML	Graduation Interval 1ML, Tolerance +/- 0.5ML
ESL56503	Capacity : 250 ML	Graduation Interval 1ML, Tolerance +/- 1ML
ESL56504	Capacity : 500 ML	Graduation Interval 5ML, Tolerance +/- 2ML



Measuring Cylinder ,Class A, Round Base

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 , Tall form .

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



Measuring Cylinders- PP

Measuring Cylinders - Autoclavable Graduations, Material : 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



Measuring Cylinder PMP, Class B

Measuring 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 ML
- ESL56533 Capacity : 2000 ML





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 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 Tall Form

Beaker Tall form, borosilicate glass 3.3 ,with graduation and spout.

- ESL56561 Capacity : 50 ML
- ESL56562 Capacity : 100 ML
- ESL56563 Capacity : 150 ML
- ESL56564 Capacity : 250 ML
- ESL56565 Capacity : 400 ML
- ESL56566 Capacity : 600 ML
- ESL56567 Capacity : 1000 ML



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



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 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 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



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



Pycnometer To Gay Lussac, Calibrated, Class A

Pycnometer to gay lussac, calibrated, class a, 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 Weighing

Bottles, Ground In Stopper Manufactured from ASTM 438 TYPE 1 boro 3.3 glass

ESL56634	50x35mm Capacity : 20 ml
ESL56635	65x35mm Capacity : 25 ml
ESL56636	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.



Desiccators 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 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
- ESL56642 Capacity : 1000 ML 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
- ESL56664 Capacity : 2000 ml N/S 24/29



Bottle Reagent Autoclavable Screw Cap And Pour- ing 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

ESL56988





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
- ESL56658 Capacity : 120 ml
- ESL56656EU Capacity : 30 ml
- ESL56657EU Capacity : 50 ml
- ESL56658EU Capacity : 100 ml



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 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 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



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

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.

ESL56757





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 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 LDPE

Wide Mouth Boston Round Bottle-Made of High density Polyethylene ,sold in packs

ESL56710	Capacity : 30 ML	12pcs/pack
ESL56711	Capacity : 60 ML	12pcs/pack
ESL56712	Capacity : 125 ML	12pcs/pack
ESL56713	Capacity : 250 ML	12pcs/pack
ESL56714	Capacity : 500 ML	12pcs/pack
ESL56715	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 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

Wide-Mouth Boston Round Bottle-Made of Polypropylene , 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





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 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



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

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 500ML

Wash bottles 500ml , Material : polyethylene

ESL56758



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

NEW



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



NEW

ESL57462



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



Evaporating Dishes Ceramic

(EURO DESIGN) 75 x 30 mm(ODXH) made of porcelain, maximum temperature up-to 1150°C

- | | | | |
|-------------|-------|--------------|--------|
| ESL56782/10 | 10 ML | ESL56783 | 70 ML |
| ESL56782/15 | 15 ML | ESL56784 | 100 ML |
| ESL56782/25 | 25 ML | ESL56784/125 | 125 ML |
| ESL56782 | 50 ML | | |



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



Mortar & Pestle

Pestle & Mortar made of porcelain, maximum temperature up to 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)

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



NEW



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



Funnel Analytical PP , 100 mm -Long Stem

Funnels- long stem 100mm, Autoclavable Material : Polypropylene

ESL56805



Separating Funnel

Separating funnel with glass stopcock and pp stopper Squibb shape

- 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 Medium Wall**

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 High Wall**

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

**Crucible Porcelain Low Wall**

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

**Watch Glass**

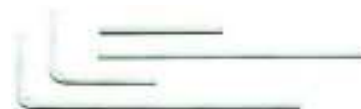
Work well as lids for flasks and beakers, or holding small samples for observation under a low-power microscope.

ESL56841	DIA 50 MM
ESL56842	DIA 60 MM
ESL56843	DIA 75 MM
ESL56844	DIA 90 MM
ESL56845	DIA 100 MM
ESL56846	DIA 125 MM

**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

ESL56850





Tiles Porcelain With 12 Cavities

White, with 12 cavities 22mm diameter.

ESL56852

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

- ESL56879 Nylon Head size 125 x 10 mm, overall length 650 mm
- ESL56880 Bristle Head size 125 x 10 mm, overall length 650 mm

Brush Cylinder

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 dia.-40 mm
- ESL56883 Bristle Total Length-450 mm, Brush length-150 mm, Brush dia.-75 mm

Brushes

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





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.

- ESL57003 Capacity : 50 ml
- 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 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



Funnel Analytical PP , 100Mm Long Stem

Funnels- long stem 100mm autoclavable material : polypropylene

ESL56805



Chlorine Test Strip

- ESL57040 5 TEST 0 - 0.5 - 1 - 3 - 5 mg/L Cl₂ 100 strips/Pk
- ESL57041 20 TEST 0 - 0.5 - 1 - 3 - 5 - 10 - 20 mg/L Cl₂ 100 strips/Pk
- ESL57042 300 TEST 0 - 25 - 50 - 100 - 200 - 300 mg/L Cl₂ 100 strips/pk
- ESL57043 1000 TEST 0 - 50 - 100 - 250 - 500 - 1000 mg/L Cl₂ 100 strips/pk



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 perforations
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



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



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



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, Material : Cast iron



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)



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.)
ESL57085	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 casting with stainless steel bar Jaws are layered 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

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

Stand Set Base & Road , Steel Base

Stand Set Base & Road , Steel Base

ESL57088

Retort Ring With Boss-head

Open ring retort support with boss-head made of Nickel chrome plated steel

ESL57109	Dia 60 mm
ESL57110	Dia 80 mm
ESL57111	Dia 100 mm





Burette Clamp

ESL57094	Single	Polypropylene .Suitable for all burette up-to 100ml.
ESL57095	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 jaws. Suitable for all burettes upto 100ml.



Clamp Universal, Assorted

ESL57101	4 Finger Cork Lined	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
ESL57102	4 Finger Cork Lined With Bosshead	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.
ESL57103	3 Finger With Bosshead	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.
ESL57104	3 Finger, Swivel	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)''
ESL57105	2 Prong Single 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 50mL to 2000mL

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 x 120 x 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.

Black nylon thumb screws

Single
Double

ESL57096
ESL57097

NEW



NEW

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

NEW



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 dia. 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

ESL57134 Dia ,30 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

NEW



Draining Basket

A basket with wide net like structure, useful for draining different laboratory apparatus after washing.

Repeatedly autoclaved.

Material: Polypropylene

ESL57150





Drying Rack,
Wall mounted corrosion free

- ESL57151** 20 PEGS Made of abs material
- ESL57152** 30 PEGS Made of steel / polyester
- ESL57153** 48 Pegs ,coated wire Plastic coated steel , wire tip are PVC coated size 500 x 400 mm
- ESL57154** 55 Pegs,coated wire 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.



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

NEW



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

ESL57089



Laboratory Jack

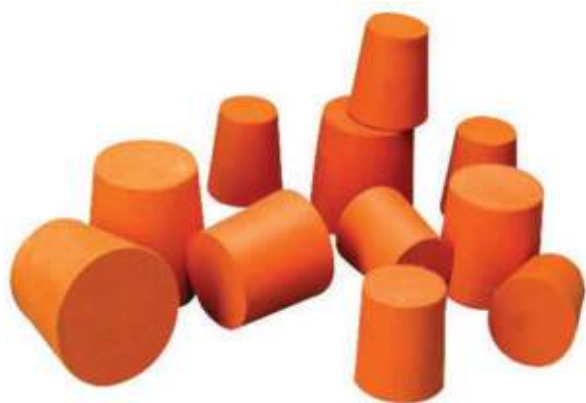
Laboratory jack made of Aluminium

- ESL57161** 10 X 10 CM Max. Hight : 18cm
- ESL57162** 15 X 15 CM Max. Hight : 25cm
- ESL57163** 20 X 20 CM Max. Hight : 28cm

Cork Stopper Assorted PK

ESL57189





Stopper Rubber

Made of Solid, superior quality rubber resistance to acid, alkali and ammonia, suitable for schools, colleges and Universities.

Cat. No	Top	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 Two 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 Sharpener

Cork Borer Sharpener, Die-cast alloy. Suitable for all borers

ESL57279

Stopper Rubber, Assorted Size Pack

Assorted Size Pack

NEW

ESL57217



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



Cork Borer Set 12

Nickel-plated finish. Complete with cleaning rod having good grip and pipes of thick gauge. Set of 12 sizes 4-18mm

ESL57278





Stopper Rubber Silicon

Made of Solid, superior quality Silicon resistance to acid, alkali and ammonia, suitable for schools, colleges and Universities.

Cat. No	Top	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



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



Glass Tube Cutter

Glass tubing cutter, up to an outer diameter of 40mm.

ESL57349





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.

- ESL57314 2mm x 1mm (Bore x Wall Thickness).
- ESL57315 3mm x 1mm (Bore x Wall Thickness).
- ESL57316 3mm x 1.5mm (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. Heavy-duty 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

Heating



Spirit Lamp Glass

Reference Capacity 100 (ml)
Outside Ø 70 (mm)

ESL57370

Spirit Lamp St.

Methylated Spirit Burner

ESL57371



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



Neoprene Bunsen Burner Hose,

Connect your burner to a fuel source.

- ESL57359 Length 2 FT (.6M)
- ESL57360 Length 3 FT (.9M)

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



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..

- 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

range 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



NEW



NEW

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

- ESL57403/2 Measuring Scoop PP 2ML
- ESL57403/5 Measuring Scoop PP 5ML
- ESL57403/10 Measuring Scoop PP 10ML
- ESL57403/25 Measuring Scoop PP 25ML
- ESL57403/50 Measuring Scoop PP 50ML
- ESL57403/100 Measuring Scoop PP 100ML
- ESL57403/250 Measuring Scoop PP 250ML
- ESL57403/500 Measuring Scoop PP 500ML
- ESL57403/1000 Measuring Scoop PP 1000ML

Magnetic Stirring Bar

PTFE coated magnetic stirrer bar a raised ring in the middle to aid string



NEW	SKU	Size	Pack Size
	ESL57397/138	8 x 13	10
	ESL57397/168	8 x 16	10
	ESL57397/198	8 x 19	10
	ESL57397/228	8 x 22	10
	ESL57397/258	8 x 25	10
	ESL57397/308	8 x 30	10
	ESL57397/388	8 x 38	10
	ESL57397/418	8 x 41	10
	ESL57397/518	8 x 51	5
	ESL57397/648	8 x 64	5

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

ESL57408

Tube Combustion

Borosilicate glass, open both ends, for oxidation 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



Labware





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

Litmus Paper Red Pk/100 strips

ESL57415/100

Blue Pk/200 Strips

Range pH 8-5, colour change

ESL57417

Blue Litmus Paper Pk/100 strips

ESL57417/100

Neutral Pk/200 Strips

Colour change to red or neutral.

ESL57419

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

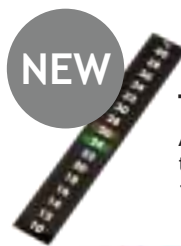
ESL57437 Size : 50 mm x 75 mtr



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.

ESL57425



NEW

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





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 °C, Division: 0.5 C, Accuracy: /-0.5 C @ 35 C
ESL57545	White bkd blue spirit	Range: -30 to 120 °F, Division: 1.0 F, Accuracy: /-0.2 F @ 95F
ESL57546	White bkd blue spirit	Range: -35 to 50 °C, Division: 1.0 C, Accuracy: /-1.0 C @ 35 C
ESL57547	White bkd blue spirit	Range: -20 to 110 °C &F, Division: 1.0 C&F, Accuracy: /-1.0 C @ 35C
ESL57548	White bkd blue spirit	Range: -20 to 150 °C&F, Division: 1.0 C&F, Accuracy: /-1.0 C @ 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 °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 °C, Division: 1.0C, Accuracy: /-2.0 C @ 90 C
ESL57557	White bkd blue spirit	Range: -10 to 210 °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 °C, Division: 0.2 C, Accuracy: /-1.0 C @ 35 C
ESL57563	White bkd blue spirit	Range: -1 to 101 °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 °C, Division: 1.0 C, Accuracy: /-1.0 C @ 35 C
ESL57567	White bkd blue spirit , Length 305MM	Range: -10 to 110 °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 ° 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 ° 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 ° C, Division: 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 ° C, Division: 0.5 C, Length: 305mm, Accuracy: +/-0.5 C @ 35 C
ESL57583	Filling : Blue LoTox	Range : -10 to 50 ° C, Division: 0.5, Length: 305mm, Accuracy: +/-0.5 C @ 35 C
ESL57584	Filling : Blue LoTox	Range : -10 to 110 ° C, Division: 0.5, Length: 155mm, Accuracy: +/-1.0 C @ 35 C
ESL57585	Filling : Blue LoTox	Range : -20 to 110 ° C, Division: 1.0 C, Length: 305mm, Accuracy: +/-1.0 C @ 35 C
ESL57586	Yellow Back with Red Spirit Filling	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.

- 4 x 150mm initial brand green filled thermometers
 - 4 x 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

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 uncalibrated green filled thermometer
- Boxed Dimensions : 334 x 232 x 50mm



ESL57587

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



NEW

ESE53838

Thermometer Dial

For measuring temperature range -10 to 50 ° C in plastic case.



ESL57593

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

Whirling Hygrometer with folding handle

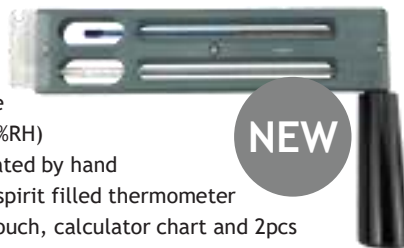
Uses the 'wet' and 'dry' principle to measure Relative Humidity (%RH)

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



NEW

ESE53840

Hygrometer Hair Type

For measuring of relative humidity in air 0-100 x 1% r.h. in plastic case.



ESL57590

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



Thermometers

Wall Thermometer

Sustainable wood wall thermometers sourced from forests managed to strict environmental, social and economic standards

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 glass tube

Dimensions : 150 x 35 x 8mm - Weight: 29.5g

ESE53863



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



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



NEW

Thermometer Digital

K Type Thermometer DM6801A+ Features New type holster, anti-drop design Large LCD for easy reading Strong anti-magnetic and anti-interference performance Data hold function High resolution 0.1°C / °F High accuracy 0.2% Specifications Basic function Range Accuracy Temperature -50°C ~ 199.9°C (0.2%+1) -50°C ~ 1000°C (0.3%+2) 1000°C ~ 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



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

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 / °F Accuracy: -50 to -21°C: +/-4°C -20 to -1°C: +/-2°C 0 to 100°C: +/-1°C 101 to 150°C: +/-2°C Resolution: 0.1°C Sampling 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 8mm Probe dimensions: Net: 195mm x 21mm x 21mm Gross: 230mm x 25mm x 25mm Product weight: Net: 21g (including battery) Display box: 10.5g Gross: 31.5g

ESL57620B



NEW

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°C Resolution: 0.1°C Ingress protection: IP65 Battery: 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 8mm Probe dimensions: 120mm x ø3.5mm Product dimensions: Net: 200mm x 20mm x 15mm Gross: 205mm x 26mm x 25mm Product weight: Net: 20.5g Display box: 10.5g Gross: 31g Temperature range -50°C ~ 300°C / -58°F ~ 572°F Accuracy -50°C ~ 300°C: ±1°C / ±2°F; Other range: 2°C / ±2°F Resolution 0.1° Measuring speed 0.8s Power source 1.5V AAA battery"

(including battery) Display box: 10.5g Gross: 31.5g

ESL57620WR

Thermometer - Digital Hand Held with Probe

Temperature range -50°C ~ 300°C / -58°F ~ 572°F Accuracy -50°C ~ 300°C: ±1°C / ±2°F; Other range: 2°C / ±2°F Resolution 0.1° Measuring speed 0.8s Power source 1.5V AAA battery

ESL57620



NEW



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 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

ESL57594

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 P65
 Battery usage : 1 x AA (Included) CE , ROHS/WEEE: Approved.



ESL57597

Max Min Thermometer Digital Heavy Duty , White

Large Max Min Digital Thermometer Suitable for outdoor and indoor use in shows minimum, maximum and current 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 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 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 50 °C&F / Outdoor: -50 to 70 ° C&F
 Humidity Range: 20 to 99% RH (when humidity 20%, display 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

Max Min Thermometer Dial (Bimetallic)

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. C and F.

Product Specifications :
 Thermometer Range : -20 to 50 ° C&F
 Humidity Range : 0 to 100%RH
 Thermometer Accuracy : /- 1 ° C between 0 and 30C, otherwise /- 2 ° C
 Humidity Accuracy : /- 5%RH between 40 and 80%RH, otherwise /- 9%RH



ESL57600





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 ° C between -20 and 0°C /-1 ° C between 0 and 50 ° C /-2 ° C between 50 ° and 70 ° C otherwise /-3 ° C Sampling Rate : 10 second Battery : 1.5 volt (AAA) or equivalent x 2 pieces (Included) CE,ROHS/WEEE : Approved

ESL57601



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 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 ° C&F Accuracy : /- 2.0 ° C Tolerance between limbs : /- 1.5 ° C

ESL57603



Max Min Thermometer White Mag- net 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 ° 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 Quick-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 ° C

ESL57606





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: $\pm 2\%$, $\pm 2^\circ\text{C}$ / 4°F
Resolution: $0.1^\circ\text{C}/^\circ\text{F}$
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

ESL57612

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 14mm
Basic Accuracy: $\pm 2\%$, $\pm 2^\circ\text{C}$ / 4°F
Resolution: $0.1^\circ\text{C}/^\circ\text{F}$
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

-50 to 800°C (-58 to 1472°F)
 -50 to 500°C (-58 to 932°F)

ESL57608

ESL57609



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 $^\circ\text{F}$ 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 14mm
IR Basic Accuracy: -50 to 0°F : $\pm 4^\circ/7^\circ\text{F}$ 0 to 500°F : $\pm 1.5\%$ / $\pm 2^\circ/3.6^\circ\text{F}$
Above 500°F : $\pm 2\%$ / $\pm 2^\circ/3.6^\circ\text{F}$
K-Type Basic Accuracy: -50 to 1370°F : $\pm 1.5\%$ / $\pm 1^\circ/1.8^\circ\text{F}$ Emissivity: Adjustable 0.1 to 1.0
Resolution: 0.1°F

Operating Conditions: 0 to 50°C <95%RH (non-condensing) Storage Conditions: -20 to 70°C <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°C (-58 to 1922°F)

ESL57610

ESL57611





Thermometer Infrared Body Temperature

Body Temperature Thermometer
 Non-contact and hygienic 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°F) - In Surface Temp Mode: 0 to 60 C (32 to 140 F)
 Operating Temp: 10 to 40°C (50 to 104°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 Hygienic
 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

ESL57615





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 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)

ESL57619





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



NEW

Balance Four Beam Balance 310g

The maximum capacity is 311 grams and the readability is 0.01g. It 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: 311g Front beam: 1x0.01g Second beam: 10x1g Third beam: 100x10g Last 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 well-polished 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



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



NEW

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 tip-resistant base sliding poise for easy zeroing and check rod for support of off-centre load. Capacity 2kg Readability 1g.

ESL57623



Height & Weight Scale Basic
Height and weight scale, measuring range 0-200 kg

ESL57689



Height & Weight Scale Advance
Height and weight scale, measuring range 0-200 kg

ESL57690





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



Weighing Boats

Plastic weighing boats/trays - pack of 50
30ml capacity
DIAMOND SHAPE



ESL57659

Spring Balance

balance spring pocket size, moulded in plastic, reading both sides.

- ESL57633 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 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 Precision

High precision load-cell, compact design. Full plastic housing. Stainless steel Platter. Super bright LCD display with back-light. Mains adaptor 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 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



NEW



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

NEW



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



Balance Weight Physical

Made of Polished Brass, supplied with Wooden block, as illustrated.

ESP60079	Capacity 500gm	Comprising 1 x 200gm, 2 x 100gm, 1 x 50gm, 1 x 20gm, 2 x 10gm, 1 x 5gm, 2 x 2gm, 1 x 1gm.
ESP60080	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.
ESP60081	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.



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

ESP60083

Slotted Masses And Hanger

Slotted Masses and Hanger , EduScience Nickel plated Brass ,mass in disc shape
Material: EduScience Plated Brass **Consists of:** 1 x Masses hanger - 9 x 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
Set of 12 brass nicked plated slotted masses with hanger 50g hanger, nine masses of 20g, one of 10g and two of 5g.

ESP60086B12



NEW

Slotted Weight 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 off accidentally.



ESP60089	Total 100gm	Each of 10gm
ESP60090	Total 250gm	Each of 25gm
ESP60091	Total 1000gm	Each of 100gm
ESP60092	Total 250gm	Each of 50gm
ESP60093	Total 100gm	Set of one hanger 20gm, three slotted masses 20g one mass 10gm and two masses 5gm , Total 100gm
ESP60094	Total 250gm.	"Set of one hanger 50gm, nine slotted masses 20gm, one mass of 10gm and two masses of 5gm Total 250gm.





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



Melting Point Tube (Pk/100)

Melting Point Tube

ESL57729

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 : ±1.0°C @ 20°C (68°F), ±2.5°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

ESL57725



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 W x 140 D x 110 mm H (15 x 5.5 x 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

ESL57726



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 x 5gm

ESP60106





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



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

ESL57740



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.

ESL57733

ESP59918



Stopwatch Budget

Budget Stopwatch

1/100 second stopwatch with split timer function, calendar 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



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 x 97 x 70.5mm

ESL57739

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

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 : 10mA (Stand-by current) & 12mA (average alarm current)
 Electrostatic discharge ESD : /-8kV

LCD Dimensions : 38mm x 64mm

Product Dimensions : 55mm x 55mm x 25mm



ESL57743



NEW



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

Labware

Model		ESL57748	ESL57859	ESL57756	ESL57862	ESL57748B	ESL57859B	ESL57756B	ESL57862B	
Parameter	pH/mV.°C	✓	-	-	✓	✓	-	-	✓	
	mV(ORP).°C	✓	✓	-	✓	✓	✓	-	✓	
	Cond/TDS/Sal./Res.°C	-	-	✓	✓	-	-	✓	✓	
pH	Measurement range	(-2.00-16.00) pH	✓	-	-	✓	✓	-	-	✓
	Resolution	0.1/0.01	✓	-	-	✓	✓	-	-	✓
	Accuracy	±0.01pH±1digit	✓	-	-	✓	✓	-	-	✓
	Calibration points	1-, 2-, or 3-point	✓	-	-	✓	✓	-	-	✓
	ATC range	0~50°C (32-122°F)	✓	-	-	✓	✓	-	-	✓
ORP	Measurement range	(-1000.0-+1000.0) mV	✓	✓	-	✓	✓	-	✓	
	Resolution	0.1/1	✓	✓	-	✓	✓	-	✓	
	Accuracy	±0.1%F.S±1digit	✓	✓	-	✓	✓	-	✓	
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; 20.00-199.9mS/cm; 200.0-2000mS/cm K=10) Match test range: 0-2000mS/cm TDS : 0-100.0g/L (TDS factor adjustable) Resistivity:5.000Ω-cm-100.0MΩ-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	✓	✓	✓	✓	✓	✓	✓	
APP	Calibration reminder	-	-	-	-	✓	✓	✓	✓	
	Sample ID Classification	-	-	-	-	✓	✓	✓	✓	
	Timing datalogging	-	-	-	-	✓	✓	✓	✓	
	Operation guider	-	-	-	-	✓	✓	✓	✓	
	Various display modes	-	-	-	-	✓	✓	✓	✓	
Test Kit	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	-	✓	-	-	-	✓	-	-	
	Standard Cond solution 1413µS/12.88mS/cm 30mL, one for each	-	-	✓	✓	-	-	✓	✓	
	pH buffer solution: pH4.00/7.00, 30mL, one for each	-	-	-	✓	-	-	-	✓	
	4x1.5V AAA alkaline batteries (pre-installed)	✓	✓	✓	✓	✓	✓	✓	✓	
	Lanyard	✓	✓	✓	✓	✓	✓	✓	✓	
	Hard carrying case (L/W/H: 28.0x23.0x8.2cm)	✓	✓	✓	✓	✓	✓	✓	✓	
	Operation manual	✓	✓	✓	✓	✓	✓	✓	✓	





PH Meter Pen Type

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 :

1point calibration (7.00

pH) Power :

2AAA batteries, 1.5V × 2, more than 100 hours of continuous

using Size and weight : 39×25×176 mm/95g

ESL57747

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)

ESL57751





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 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) μ S/cm(100-999) μ S/cm (1.00-10.00)mS/cm

Resolution : 0.1/1 μ S/cm:0.01 mS/cm

Accuracy \pm 1%FS

Temperature compensation : (0-50) $^{\circ}$ C (Auto) Automatic

Calibration 1 point calibration(1413 μ S/cm)

Power : 2 AAA batteries, 1.5V \times 2, more than 100 hours of continuous using Size and **Weight** : 39×25×176 mm/ 87g



ESL57755



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 $^{\circ}$ C Auto Temperature Compensation (ATC), 0.01 mS/ \pm 1% F.S, 0.5 $^{\circ}$ 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 $^{\circ}$ 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 $^{\circ}$ 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)

ESL57758



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



Labware

Model		ESL57752	ESL57860	ESL57806	ESL57807P Polarography Type	ESL57807O Optical Type
Parameter	pH/mV.°C	✓	-	-	-	-
	mV(ORP).°C	✓	✓	-	-	-
	Cond/TDS/Sal./Res.°C	-	-	✓	-	-
pH	DO	-	-	-	✓	✓
	Measurement range	(-2.000-20.000) pH	✓	-	-	-
	Resolution	0.1/0.01/0.001	✓	-	-	-
	Accuracy	±0.002pH±one digit	✓	-	-	-
	Calibration points	1, 2, -3pts automatic	✓	-	-	-
ORP	ATC range	(0.0-100.0) °C/(32.0-212.0)°F	✓	-	-	-
	Measurement range	(-1999.9 - +1999.9) mV	✓	✓	-	-
	Resolution	0.1/1	✓	✓	-	-
Conductivity	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;	-	-	✓	-
	Resolution	one point	-	-	✓	-
DO	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	-	-	-	✓
	Accuracy	±0.30 mg/L	-	-	-	✓
	Accuracy	±0.20 mg/L	-	-	-	✓
	DO saturation	(0.0-200.0)%	-	-	-	✓
Temperature	Barometric pressure compensation	(0-200.0) kPa	-	-	-	✓
	Temperature compensation	(0.0-50.0) °C/(32.0-122.0)°F	-	-	-	✓
	Salinity compensation	0~45ppt	-	-	-	✓
Others	Measurement range	(0.0-100.0) °C/(32.0-212.0)°F	✓	✓	✓	✓
	Accuracy	±0.2°C	✓	✓	✓	✓
Test kit	Charging socket	Type-C	✓	✓	✓	✓
	Power supply	rechargeable lithium battery	✓	✓	✓	✓
	IP Rating	IP57	✓	✓	✓	✓
	Meter	Meter	✓	✓	✓	✓
	Plastic ATC pH probe D201T-H	Plastic ATC pH probe D201T-H	✓	-	-	-
	Plastic ORP probe DORP301	Plastic ORP probe DORP301	-	✓	-	-
	Stainless-steel temperature probe DTEMP-02H	Stainless-steel temperature probe DTEMP-02H	-	✓	-	-
	Plastic ATC Cond probe DCON201T, K=1.0	Plastic ATC Cond probe DCON201T, K=1.0	-	-	✓	-
	Polarographic DO probe DDO01-2M-H, cable length: 2m	Polarographic DO probe DDO01-2M-H, cable length: 2m	-	-	-	✓
	Optical DO probe DODO01-3M, cable length: 3m	Optical DO probe DODO01-3M, cable length: 3m	-	-	-	✓
pH buffer solution: pH4.00/7.00/10.01, 50mL, one for each	pH buffer solution: pH4.00/7.00/10.01, 50mL, one for each	✓	-	-	-	
Standard ORP solution: 222mV, 50mL,1btl	Standard ORP solution: 222mV, 50mL,1btl	-	✓	-	-	
Standard Cond solution 84µS/1413µS/12.88mS/cm, 50mL, one for each	Standard Cond solution 84µS/1413µS/12.88mS/cm, 50mL, one for each	-	-	✓	-	
Membrane refill solution DDOS-01, 30mL,1btl	Membrane refill solution DDOS-01, 30mL,1btl	-	-	-	✓	
Membrane sensor caps DDOSC: 3pcs/group, 1pkg	Membrane sensor caps DDOSC: 3pcs/group, 1pkg	-	-	-	✓	
Rechargeable lithium battery (pre-installed)	Rechargeable lithium battery (pre-installed)	✓	✓	✓	✓	
Charging cable: 1pc	Charging cable: 1pc	✓	✓	✓	✓	
Hard carrying case (L/W/H: 33.0×27.2×8.2cm): 1pc	Hard carrying case (L/W/H: 33.0×27.2×8.2cm): 1pc	✓	✓	✓	✓	
Operation manual	Operation manual	✓	✓	✓	✓	





NEW

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		ESL57754	ESL57760	ESL57809	ESL57854	ESL57855	ESL57856	ESL57857
Parameter	pH/mV.°C	✓	-	-	✓	✓	-	✓
	mV(ORP).°C	✓	-	-	✓	✓	-	✓
	Cond/TDS/Sal./Res.°C	-	✓	-	✓	-	✓	✓
	DO	-	-	✓	-	✓	✓	✓
pH	Measurement range	(-2.00-20.00) pH	✓	-	-	✓	✓	✓
	Resolution	0.1/0.01	✓	-	-	✓	✓	-
	Accuracy	±0.01pH±one digit	✓	-	-	✓	✓	-
	Calibration points	1, 2, -3pts automatic	✓	-	-	✓	✓	-
	ATC range	(0.0-100.0) °C/(32.0-212.0) °F	✓	-	-	✓	✓	-
ORP	Measurement range	(-1999.9 - +1999.9) mV	✓	-	-	✓	✓	-
	Resolution	0.1/1	✓	-	-	✓	✓	-
	Accuracy	±0.1%F.±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	-	✓	-	✓	-	✓
	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	-	✓	-	✓	-	✓
DO	Measurement range	(0.00-20.00) mg/L	-	-	✓	-	✓	✓
	Accuracy	±0.30 mg/L	-	-	✓	-	✓	✓
	DO saturation	(0.0-200.0)%	-	-	✓	-	✓	✓
	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	-	-	✓	-	✓	✓
Temperature	Measurement range	(0.0-100.0) °C/(32.0-212.0) °F	✓	✓	✓	✓	✓	✓
	Accuracy	±0.2°C	✓	✓	✓	✓	✓	✓
Others	Data export	Flash disk/Printer	✓	✓	✓	✓	✓	✓
	Power supply	DC12V	✓	✓	✓	✓	✓	✓
Test kit	Meter	✓	✓	✓	✓	✓	✓	✓
	Plastic ATC pH probe D201T	✓	-	-	✓	✓	-	✓
	Plastic ATC Cond probe DCON201T, K=1.0	-	✓	-	✓	-	✓	✓
	Polarographic DO probe DDO01-2M, cable length: 2m	-	-	✓	-	✓	✓	✓
	pH buffer solution: pH4.00/7.00/10.01, 50mL, one for each	✓	-	-	✓	✓	-	✓
	Standard Cond solution 84µS/1413µS/12.88mS/cm, 50mL, one for each	-	✓	-	✓	-	✓	✓
	Membrane refill solution DDOS-01, 30mL, 1btt	-	-	✓	-	✓	✓	✓
	Membrane sensor caps DDOSC: 3pcs/group, 1pkg	-	-	✓	-	✓	✓	✓
	Power adaptor: 1pc	✓	✓	✓	✓	✓	✓	✓
	Flexible probe holder DF01: 1pc	✓	✓	✓	✓	✓	✓	✓
Operation manual	✓	✓	✓	✓	✓	✓	✓	



NEW



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	ESL57857T
Parameter	pH/mV.°C	✓	-	-	✓	✓	-	✓
	mV(ORP).°C	✓	-	-	✓	✓	-	✓
	Cond/TDS/Sal./Res.°C	-	✓	-	✓	-	✓	✓
	DO	-	-	✓	-	✓	✓	✓
pH	Measurement range	(-2.000-20.000) pH	✓	-	✓	✓	-	✓
	Resolution	0.01/0.001	✓	-	✓	✓	-	✓
	Accuracy	±0.002pH±one digit	✓	-	✓	✓	-	✓
	Calibration points	1, 2, -5 pts automatic	✓	-	✓	✓	-	✓
	ATC range	(0.0-100.0) °C/(32.0-212.0) °F	✓	-	✓	✓	-	✓
ORP	Measurement range	(-1999.9 - +1999.9) mV	✓	-	✓	✓	-	✓
	Resolution	0.1/1	✓	-	✓	✓	-	✓
Accuracy	Accuracy	±0.03%F.5±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; 20.00-199.9mS/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: 0-100ppt	-	✓	-	✓	-	✓
Conductivity	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	-	-	✓	-	✓	✓
DO	Accuracy	±0.30 mg/L	-	-	✓	-	✓	✓
	DO saturation	(0.0-200.0)%	-	-	✓	-	✓	✓
	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	-	-	✓	-	✓	✓
Temperature	Measurement range	(0.0-100.0) °C/(32.0-212.0) °F	✓	✓	✓	✓	✓	✓
	Accuracy	±0.2°C	✓	✓	✓	✓	✓	✓
Others	Data export	Flash disk/PC/Printer	✓	✓	✓	✓	✓	✓
	Power supply	DC12V	✓	✓	✓	✓	✓	✓
Test kit	Meter	✓	✓	✓	✓	✓	✓	✓
	Glass refillable combination pH probe D201G	✓	-	-	✓	✓	-	✓
	Stainless-steel temperature probe DTEMP-01	✓	-	-	✓	✓	-	✓
	Glass ATC conductivity probe DCON201TG, K=1.0	-	✓	-	✓	-	✓	✓
	Polarographic DO probe DDO01-2M	-	-	✓	-	✓	✓	✓
	pH buffer solution: pH4.00/7.00/10.01, 50mL, one for each	✓	-	-	✓	✓	-	✓
	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	✓	✓	✓	✓	✓	✓	✓	
Power adaptor	✓	✓	✓	✓	✓	✓	✓	
Operation manual	✓	✓	✓	✓	✓	✓	✓	





NEW



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 and 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 0.5µS/cm ~ 200mS/cm by using only one- point 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 quick 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, auto-power 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



PH Meter Desk Top

Lab pH Meter DESK TOP

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 .

ESL57753



Electrode Holder Flexible

Base of holder is made up of ABS hull, cast iron counter weight and axis of rotation of stainless steel three electrodes can be put into electrode chuck (electrode capΦ16 mm)

ESL57761



Meters

Electrode



Name	Combination pH electrode
Mode	D201G
Connector type	BNC
Housing material	Glass
Measurement range	0-14.0pH
Temp. range	0-100°C
Junction	Ceramic
Electrolyte	3 mol KCl (refillable)
Reference electrode	Ag/AgCl
Cable length	1m



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	10KΩ
Housing material	Glass
Constant	$K=1.0\pm 0.02\text{cm}^{-1}$
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	--- /10KΩ
Housing material	PC
Constant	$K=1.0\pm 0.02\text{cm}^{-1}$
Sensor	Platinum rod
Measurement range	0.5μS/cm-200.0mS/cm
Temp. range	0-80°C
Cable length	1m



Name	Ultra-purified water Cond electrode
Mode	DDJS-0.01V
Connector type	4 pins
Constant	$K=0.01\pm 0.02\text{cm}^{-1}$
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	10KΩ
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



NEW



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: 4xAA batteries (included) or USB-A 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: 10x10mm 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 x 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 Gragnells 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

ESL57771/4



NEW



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.

ESL57772

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.

ESL57814



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.

Photometrics System	: Double-beam type	Monochromator	: Czerny-Turner type with 1200 lines/nm
Spectral Bandwidth	: 1 nm (190 to 1100 nm)	blazed grating Standard	: Automatic Rotary type 8-position Multi- Cell
Wavelength Range	: 1 nm (190 to 1100 nm)	Multi-Cell Holder	: ± 0.0002 at 0.5 Abs
Wavelength Display(setting)	: 0.1 nm	Photometric Repeatability	: ± 0.0006 at 1.0 Abs ± 0.001 at 2.0 Abs
Wavelength Accuracy	: <± 0.05 nm at 486, 656.1 nm <± 0.3 nm (190 to 1100 nm)	Baseline Stability	: < 0.0003 Abs/h
Wavelength Repeatability	: <± 0.1 nm	Baseline Flatness	: <± 0.0005 Abs
Slew Rate	: About 8,800 nm/min	Lamp Interchange	: 340-410 nm (Default 370 nm)
Scan Speed	: Max 4,000 nm/min	Wavelength Display	: 8 inch color LCD with touch screen
Photometric Range	: Absorbance: -4 to 4 Abs Transmittance: 0% to 400 %	Operating System(OS)	: Windows 10 (Embedded PC);
Light Source	: Tungsten Halogen Lamp & Deuterium Lamp (Built-in light source auto interchanging motor)	Power Requirement	: Windows 10 (Embedded PC);
Stray Light	: < 0.02 % NaI at 220 nm, NaNO ₂ at 340 nm	Weight(kg)	: Windows 10 (Embedded PC);
		Dimensions(W x D x H)	: 100-240 V; 50-60 Hz

ESL57764



Spectrophotometer CCD

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
- Beer-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



ESL57765

Baseline Stability : $\leq \pm 0.001$ Abs/hBaseline Flatness : ± 0.002 Abs

Monochromator : Czerny-Turner type with 1200 lines/nm blazed grating

Light Source : Tungsten Halogen Lamp & Deuterium Lamp (Built-in light source auto interchanging motor)

Spectrophotometer Single Beam

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	: $\leq \pm 0.5$ nm

Wavelength Reproducibility	: $\leq \pm 0.1$ nm
Slew Rate Scanning	: About 8,800 nm/min
Speed Photometric	: Max 4,000 nm/min
Range	: Absorbance : -3 to 3 Abs
Transmittance	: 0 % to 300 %
Photometric Accuracy	: ± 0.005 at 1.0 Abs
Photometric Reproducibility	: ± 0.003 at 1.0 Abs
Stray Light	: < 0.05 % NaI at 220 nm, NaNO ₂ at 340 nm

Standard Cell Holder	: Automatic Rotary type 8-position Multi-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

ESL57763

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 $\pm 3\%$ 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

ESL57767

Photometer Portable Round Cell Holder

Accessory for spectrophotometer

Photometer Portable Cell Holder Cover

Accessory for photometer portable mini

ESL57769

ESL57768





Spectrophotometer
ESL57810- ESL57811
ESL57812- ESL57813

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.

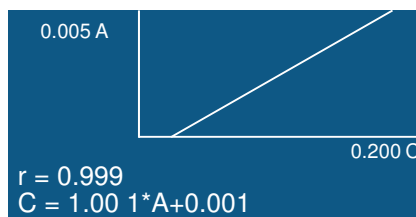
Features

- **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

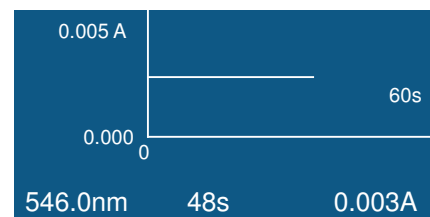
Basic Mode

546.0nm		0.001A
No.	WL.	Abs
1	230.0	0.001
2	340.0	0.000
3	450.0	0.002
4	540.0	0.000
5	620.0	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	4-position, 10mm path length cuvette	4-position, 10mm path length cuvette	4-position, 10mm path length cuvette
Display	LCD	LCD	LCD	LCD
Output	USB Port & Parallel Port (Printer)	USB Port & Parallel Port (Printer)	USB Port & Parallel Port (Printer)	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 sq. cuvette



Cat. No. 5781000332
4-cell holder for 10mm
to 50mm sq. cuvette



Cat. No. 578100333
4-cell holder for up to
100mm sq. 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. 578100341
12V20W halogen lamp



Cat. No. 578100342
Milas deuterium lamp,10V,300mA,
30W (for ESL57812& ESL57813)



Disc Polarimeter

ESL57820

Range	±180°
Scale Value	1°
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
Package	600(L)200(W)×400(H)mm



Options

Cat. Number	Descriptions
57820001	Polarimeter Tube 100mm
57820002	Polarimeter Tube 200mm
57820003	Sodium Lamp 589nm

ESL-R03AR Series Abbe Refractometer

ESL57822

Model “ESL57822” is a simple yet highly reliable Abbe refractometer with a digital thermometer. Liquid, solid and pasty samples can be evaluated. This refractometer is robust, accurate and easy to use.

Optionally a solid aluminium case for transport and storage is available. It measures the refractive index (nD).



The main scope of applications is:

- Sugar industry: such as cane sugar
- Pharmacy
- Beverage industry
- Food industry
- Chemical industry
- Oil industry/Refinery
- Laboratories
- Training

Industry: Monitoring of lubricants for process and quality control

Food industry: Beverages, fruits and sweets

Agriculture: Determination of the degree of ripeness of fruits for quality control in harvesting

Restaurants and large-scale catering establishment

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 x 0.1mm Imperial scale graduated to $5 \times \frac{1}{128}$ 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 x 0.1mm Imperial scale graduated to $5 \times \frac{1}{128}$ provided with thumb wheel for easy motion of jaws, in plastic case.

ESL57776



Vernier Calliper Digital

Measuring range : 0-150mm , Readability : 0.01mm

ESL57781



Vernier Caliper St.Steel

Vernier calliper made of aluminium , high quality .

ESL57777 0-150 0.05 mm

ESL57778 0-125 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

ESL57793 Measuring Tape 15 M

ESL57794 Measuring Tape 25 M

ESL57795 Measuring Tape 50 M



Micrometer 0-25 Mm With Lock

With ratchet top, accurately machined stainless steel rod. Range 0-25 x 0.01 mm, supplied in case. Accuracy is perfect for a hobbyist or student

-- at 10mm, accuracy is +/- .003mm.

ESL57784



Micrometer 0- 25 mm

With ratchet top, accurately machined stainless steel rod. Range 0-25 x 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

Engineering Rule

Engineering Rule



ESL57806





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),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
 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)



ESL57890

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.

ESL57891

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, 0.2 A
- 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
 pencil bit

- ESP59601 25 Watts
- ESP59602 65 Watts
- ESP59603 125 Watts



Soldering Iron Stand

Soldering iron with stand

ESL57453



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” (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/cm³ 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.

- ESL57942 REEL,SWG - 14
- ESL57943 18 GAUGE SWG - 16/17 AWG - 0.048” DIA. Includes: (1) 125g Roll
- ESL57944 20 GAUGE SWG - 19 AWG - 0.036” DIA. Includes: (1) 125g Roll
- ESL57945 22 GAUGE SWG - 21 AWG - 0.028” DIA. Includes: (1) 125g Roll
- ESL57946 24 GAUGE SWG - 23/24 AWG - 0.022” DIA.. Includes: (1) 125g Roll
- ESL57947 26 GAUGE SWG - 24/25 AWG - 0.018” DIA. Includes: (1) 125g Roll
- ESL57948 28 GAUGE SWG - 29/30 AWG - 0.0148” DIA. Includes: (1) 125g Roll
- ESL57949 30 GAUGE SWG - 32/33 AWG - 0.0124” DIA. Includes: (1) 125g Roll
- ESL57950 32 GAUGE SWG - 33/34 AWG - 0.0108” DIA. Includes: (1) 125g Roll
- ESL57951 REEL,SWG - 32
- ESL57952 REEL,SWG - 34
- ESL57953 REEL,SWG - 36



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) -



NEW





Crocodile Clip With Plastic Sleeved 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



Safety Socket For Banana Plugs

Safety socket 4mm for Banana plugs in improved design.

- ESL57910 Black
- ESL57911 Fdc
- ESL57912 Yellow
- ESL57913 Green



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



Crocodile Clip Pk/10

Crocodile clip without sleeve Pk/10

ESL57955



Banana Plugs With wire 4mm Stackable Plug Lead

- 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



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 , 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



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

ESP60841



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 supplied).

Dimensions (L x H x W): 165 x 35 x 41mm.

ESL57898



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



Pencil

Pencil PK/144

ESL57873



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.

ESL58091



Water Bath



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



Labware

Specifications

ESL58218

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 ±1 °C
 Power: 600 W
 Transparent tank with holes for 16 test tubes Ø 18 mm - Maximum heating temperature ≥ 80 °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

ESL58215





Water Bath Thermost

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 emptying an accessory tap can be added for convenience.	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 - 361w x 332d x 290h / Working - 325w x 300d x 150h Electrical supply: 230v Power consumption: 2500w
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ESL58197	Capacity : 18 Ltr	Dimension : s (mm) Overall - 362w x 332d x 290h / Working - 325w x 300d x 200h Electrical supply: 230v Power consumption: 2500w 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
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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. 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

ESL58198	Capacity : 14 Ltr	Dimension :s (mm) Overall - 361w x 332d x 170h / Working - 219w x 298d x 150h Electrical / power supply: 120v or 230v models available/ 1250w
ESL58199	Capacity : 28 Ltr	Dimension :s (mm) Overall - 537w x 332d x 240h / Working - 395w x 298d x 200h 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 $\pm 0.1^{\circ}\text{C}$, 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 temperature, 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°C -

99°C Temp. Setting: analogue

dial pointer Stability/uniformity:

± 0.25°C / ± 0.1°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™ 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

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

ESL58203	Capacity : 2 Ltr	Dimension :s External : 535w x 332h x 135h mm Internal: 300w x 150d x 65h mm Capacity Nominal Tank Capacity: Triple bath tanks, 2 Litres each.
ESL58204	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





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™ 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 : 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 : 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

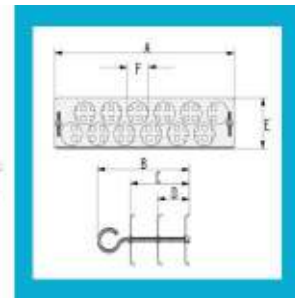
Test tube rack stainless steel 18 x 19mm

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. 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.

ESL58205	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
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ESL58206	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
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All models have 3 year warranty

Complete with shelf for good water circulation UK manufactured

Accessory lids, racks and baskets available

ESL58244



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

Standard voltage 230v, 50/60Hz Other voltages to order Larger models available
As part of our policy of continuous product improvement, the specifications are subject to change without notice.



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



NEW

Vacuum Oven

Models: ES-1202V5

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).

Model	ES-1202V5	ES-1202V6
Dimension (IN)	300 x 300 x 300(H) mm	400 x 400 x 400(H) mm
Dimension (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 coating
Valve	Vacuum valve, Purge valve
Vacuum gauge	Mechanical type
Door	Silicone packing door with Large window
Shelves	AL material, 2EA
Safety device	Exclusive over temp. protector, Power Breaker

Option





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,

Specifications :

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

Plug config.



Timer On / Off



Heated amb.+5 °C - 50 °C



Constant Temperature Controller

Incubator Compact ESL-10T / ESL-30T

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.



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.
- Easy Temp. setting methods.

NEW



Labware

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 (In)	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 60°C					
Accuracy	+/- 0.1°C					
Temperature control	Digital PID Controller					
Timer	99hr 59Min					
Thermocouple	PT 1000 Ω					
Material (In)	Stainless steel					
(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					



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) × 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	Sample Port, Access Hole, Drain Port, HEFA Filtre Unit, Flow Meter
Net Weight	98kg
Power	220V, 5A
CO2/O2 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) × 1240(H)mm
Temperature Range	20°C to 50°C, ±0.1°C



NEW



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 450mm



**Shaking Incubator
Model :
ESL8480SF - ESL8480S**

Features

- 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
	(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	
Light Control	24Hr. Photoperiod program	

**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
- Compatible for various capacity of flask & tube Light Bank
- (ESL-8480SR Model)

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



NEW



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	5" convection fan x 2EA	
Dimension	(IN)	830 x 540 x 500(H)mm
	(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

NEW



- 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

Labware

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 ° C to 250 ° 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
ESL58328	Capacity : 150 LTR	No of shelves: 3, Shelf positions: 4, Power: 1500 watts

Model	ESL58478	ESL58479	ESL58480
Dimension (In)	535 x 620 x 430	620 x 710 x 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 capacity	4.5 Liter	4.5 Liter	8 Liter
Klaterial (In)	Stainless steel	Stainless steel	
(Out)	Steel plate with powder coating		
Safety Device	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





Hot Plate Basic I (Electric Burner) 500 W ESL58416

Hot plate, electric, with variable stage less regulation of heat and overheat control , 500 W
Input supply voltage 230 V / 50 ... 60 Hz

Hot Plate ADV LCD

ESL58420

Specifications	ESL58420
Work plate Dimension [W x D]	254x254mm (10 inch)
Work plate material	Glass ceramic
Heating position	1
Heating temperature range	Room Temp.-500°C, increment 1°C
Temperature control accuracy	±1°C (<100°C)±1%(>100°C)
Safety temperature	540°C
Temperature,time display	LCD
Timer function	1min-99h59min
Temperature display accuracy	±0.1°C
External temperature sensor	PT1000(±0.2°C)
"Hot" warning	50°C
Protection class	IP21
Power	1400W
Heating output	1350W
Voltage,Frequency	100-120/200-240V, 50/60Hz
Dimension[WxDxH]	328x424x138mm
Weight	7.2kg
Permissible Ambient temperature and humidity	5-40°C, 80%RH

NEW



Electric Burner ESL58417

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.

NEW



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 transfer
- 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 be set.





Hot Plat Pro ESL58418

Specifications	ESL58418
Work Plate Dimensions [WxHxD]	140 X 14mm (6Inch)
Work plate material	Aluminum cover with ceramic coating
Heating position	1
Heating temperature range	Room temp. -380°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

Features

- 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 ADV ESL58419



Specifications	ESL58419
Work plate Dimension [W x D]	184x184mm (7 inch)
Work plate material	Glass ceramic
Heating position	1
Heating temperature range	Room Temp. -550°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
Permissible Ambient temperature and humidity	5-40°C, 80%RH



Features

- LED screen display actual and accurate temperature
- Maximum temperature up to 550°C
- 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°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 0-1500rpm
- Maximum stirring quantity of H₂O up to 10L
- Ceramic work plate provides excellent corrosion resistance



Magnetic Stirrer Mini ESL58429

Suitable for stirring small size items, necessary for all kinds of labs, especially education and R&D institution. ,ABS plastic case, beautiful appearance, step-less speed regulation.

Range 0-2300 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 120x49mm/500g



Specifications	ESL58432	ESL58430	ESL58431
Work Plate Dimensions [WxD]	184 X 184mm (7 Inch)	Φ 135mm (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	20L	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



Multi Stirring Palte 10 Analoue ESL58435



Specifications	ESL58435
Work Plate Dimensions [WxHxD]	180 X 450 mm
Work plate material	Stainless steel with silicone coating
Motor type	Brushless DC motor
Stirring positions	10
Max. stirring quantity[H ₂ O]	0.4Lx10
Max.magnetic bar[length]	40mm
Speed range	0-1100rpm
Speed display	Scale
Protection class	IP20
Motor input Power	12W
Motor output Power	4W
Power	20W
Voltage,Frequency	100-120/200-240V, 50/60Hz
Dimension[WxDxH]	622x205x65mm
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 0-1100rpm
- Stainless steel work plate covered with silicone cushion, provides excellent performance of skid resistance



Skidresistance



Multiple position

Hot Plate Magnetic Stirrer Mini ESL58438

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 Φ120×49mm/500g

Stepless speed regulation.

Constant power heating, no-load surface temperature 120 °C

A thermal protection device of 150 °C.

Range 0-2300 R/M(no load) Max

Stirring Capacity 1000mL.





Hot Plate Magnetic Stirrer Basic

ESL58439

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 20L
- 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 $\pm 0.2^\circ\text{C}$
- 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



Hot Plate Magnetic Stirrer Pro

ESL58440

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
- 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
- Digital temperature control with max. temperature at 380°C
- Digital speed control with max. speed up to 1500rpm
- Max. stirring quantity of H₂O at 5L



Hot Plat Magnetic Stirrer PRO Round

ESL58440R

Features

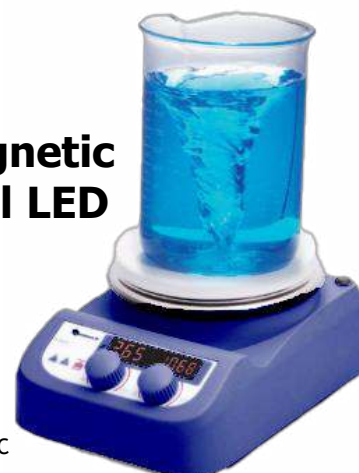
- Brushless DC motor is maintenance free and explosion-proof
- Digital temperature control up to 340°C
- Digital speed control up to 1500rpm
- Maximum stirring quantity of H₂O is 20L
- Safety circuits provide overheating protection
- "HOT" warning flashes if plate temperature is above 50°C even when hotplate is turned off
- External temperature control is possible by connecting the temperature sensor (PT 1000) with accuracy at $\pm 0.2^\circ\text{C}$
- 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

Hotplate Magnetic Stirrer Digital LED 280C

ESL58443

Features

- Digital temperature control with maximum temperature up to 280°C
- Digital speed control with maximum speed up to 1500rpm
- Stainless steel with ceramic coating work plate provides high chemical resistant performance
- External temperature control is possible by connecting temperature sensor (PT1000) with an accuracy at $\pm 0.2^\circ\text{C}$
- 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 Temp. -340°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	320x180x108mm	150x260x100mm	260x280x100mm
Weight	2.8kg	2.2kg	1.8kg	2.8kg



Hot Plate & Magnetic Stirrer ADV LCD ESL58444

Features

- Large volume: Up to 30L of liquid on 10-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 $\pm 0.2^{\circ}\text{C}$
- 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.



Labware

Hot Plat Magnetic Stirrer LCD ADV ESL58441

Hot Plat Magnetic Stirrer LED ADV ESL58442

Features

- LCD 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 $\pm 0.2^{\circ}\text{C}$
- 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





Overheating protection



External sensor



Chemical resistance



Wide range of accessories



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, [H ₂ O]	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 Temp.-500°C, increment 1°C	Room Temp.-550°C, increment 1°C	Room Temp.-550°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



Hot Plat Magnetic Stirrer Multi ESL58446



Labware

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] 182x622x65mm

Weight 3.2kg










Permissible ambient temperature and humidity 5-40°C, 80%RH



Accessories:

Cat. No.	Photo	Description	ESL58444	ESL58441 & ESL58442	ESL58439	ESL58443	ESL58440
58400001		Blue carrying plate, use with color quarter pies			■	■	
58400065		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		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		Green quarter pie, 6 holes, 8 mL reaction vessel, Ø17.8 mm, 26mm depth	■	■	■	■	■
58400049		Golden quarter pie, 4 holes, 16 mL reaction vessel, Ø21.6 mm, 31.7 mm depth	■	■	■	■	■
58401006		Reaction block for 50mL round bottom flask (one flask capacity)			■	■	
58401007		Reaction block for 100mL round bottom flask (one flask capacity)			■	■	
58401008		Reaction block for 250mL round bottom flask (one flask capacity)			■	■	
58401009		Reaction block for 500mL round bottom flask (one flask capacity)			■	■	
58400019		F101 protective over, temperature resistance of 135°C			■	■	
58400016		PT1000-A, length of 230mm	■	■	■	■	■
58400136		PT1000-B, temperature sensor with glass coated, length of 230mm	■	■	■	■	■
58400017		Support clamp of PT1000 Vertical bar length : 45 cm, stents length : 25 cm, Stem diameter:10 cm	■	■	■		
58400540		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		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
 58400740	Stirrer bar, round, Ø6X10, 2	 58400741	Stirrer bar, round, Ø8X40, 2
	Stirrer bar, round, Ø6X15, 2		Stirrer bar, Eight prism, Ø8 X 40, 2
	Stirrer bar, round, Ø8X20, 2		Stirrer bar, Gear shape, Ø8 X 30, 2
	Stirrer bar, round, Ø8X25, 2		Stirrer bar, slide round, Ø8 X 40, 2
	Stirrer bar, round, Ø6X30, 2		Stirrer bar, ellipse, Ø20 X 40, 2
	Stirrer bar, round, Ø8X40, 2		Stirrer bar, cross, Ø9 X 25, 2
	Stirrer bar, round, Ø8X50, 2		Stirrer bar, crown, Ø9X6, 2
	Stirrer bar, round, Ø10X80, 2		Stirrer bar, round, Ø8X50, 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-woven 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 woven 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 fiber 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



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		2mL×20	11×34.7mm
58400412		5/15mL×12	17×48mm
58400413		50mL×4	29.8×48mm
58400522		Two-in-one block, bead bath/water bath Adapt to S1	
58400523		Two-in-one block, bead bath/water bath Adapt to S2	
58400520		Aluminum beads	



Dry Bath (Block Heater) Digital LED

ESL58448 - ESL58449

ESL58450 - ESL58451

Features

- A wide range of temperature control up to 105°C/150°C.
- Overheating protection.
- Sound reminder function.
- External temperature sensor PT1000
- Block equipped with a lid for heat preservation and prevent pollution.
- Knob adjustment is easy to operate.



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 [° C]	90-105: ±0.6	90-105: ±0.6	90-150: ±0.6	90-150: ±0.6
Temperature uniformity@37°C [° 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 (W x D x H) 50 cm x 15 cm x 45cm, 50 cm x 20 cm x 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 µS/cm Conductivity (using treated water) 1.5 - 2.0 µS/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



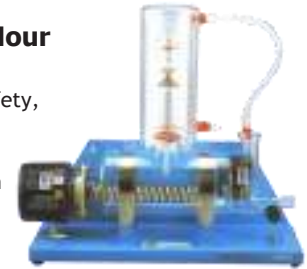
Water Still 4 Ltr /Hour Metal Element

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 x L x W) : 600 x 190 x 190 mm

ESL58353

Water Still 4 Ltr /Hour Borosil Basic Plus

Cap: 4 ltrs / hr, Single Safety, Pressure Temperature Switch with manual reset button- with UK PLUG and ON/OFF switch on the heater. CE Certified.



ESL58355



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	Automatic Water Still (with the storage tank)			Water Distiller (without tank)		Automatic Double Water Still (with the storage tank)
	ESSWS-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 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 Valve 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

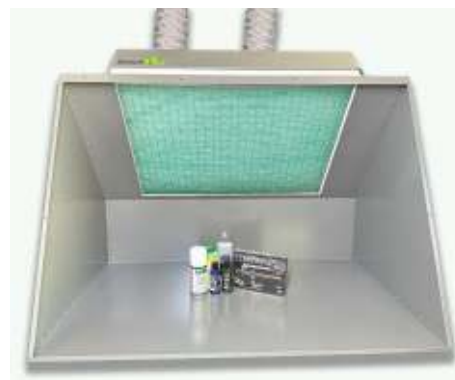


Water Still 4 Ltr /Hour Borosil Automatic Single Distillation

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.

ESL58358



Ducted Spray Booth

This A1 hood mounted extraction cabinet captures, filters and expels within art, graphics, design technology areas to ensure that model makers, hobbyists, students or employees can operate in a safe working environment free of particulates.

included :

Filter unit with 2 x centrifugal fans

Hood Enclosure

2 x 2mtrs Flexi-Ducts - 100mm diameter

1 x Particulate filter

Power Lead

Data/Warranty Booklet

Dimensions : 950x680x615 (wxhxd) [internal] 955x750x740 (wxhxd) [overall] - Weight : 37 kg

Description

Steel construction finished in grey - fan/filter unit mounted onto hood enclosure - particulate filter - 2 x centrifugal blowers - external rotor motor type, brushless, UL, VDE and CSA approved - sealed electrical wiring and switch, downstream of filter. 2 Flexi-ducts each 2 metres x 100mm dia.

Air Volume at Free Air : 710m³/hr

Ave. Air Velocity at Filter Face : 0.60 m/sec

Ave. Air Velocity at Hood Face : 0.27 m/sec

Fan Motor Spec : 230V 50Hz 210W, 115V 60Hz 250W

Filters : Particulate Filter: IFA2

ESL58390

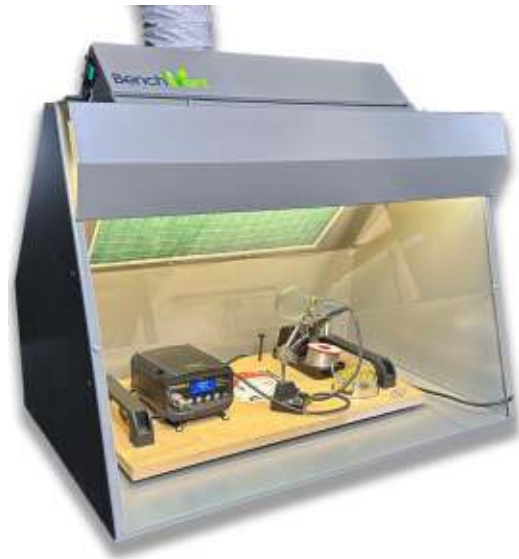




Bench Top Environment Cabinet Enclosure

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

flagship hood mounted extract-to-atmosphere cabinet. It's been designed to capture, contain, filter and expel harmful contaminants within electronic design & rework, dental/medical labs, pharmaceutical labs and classroom environments.

- included :
- Filter unit with centrifugal fan
- Hood Enclosure
- Hood Light
- Polycarbonate front panel
- Particulate filter
- 2mtrs x 100mm dia flexi-duct
- Power Lead

- Data/Warranty Booklet
- 2mtrs flex-duct
- Clear polycarbonate panel for protection
- Hood lighting
- Dimensions : 675x445 (wxd) [internal] 680x610x610 (wxhxd) [overall]
- 26kg Weight
- Description

Steel construction finished in grey - fan/filter unit mounted onto hood enclosure complete with clear polycarbonate panel and hood lighting - particulate filter - centrifugal blower, external rotor motor type, brushless, UL, VDE and CSA approved - sealed electrical wiring and switch, downstream of filter. Flexi-duct 2 metres x 100mm dia.

Air Volume at Free Air : 355 m3/hr
 Ave. Air Velocity at Filter Face : 0.60 m/sec
 Ave. Air Velocity at Hood Face : 0.55 m/sec
 Fan Motor Spec : 230V 50Hz 45W, 115V 60Hz 125W
 Filters : Standard Particle Filter - IFA3P
 Noise Level LAeq dB(A) : 58 db(A) **ESL58382**



Ducted Fume Extractor Cabinet 2

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.

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 included :

- Filter unit with 2 x centrifugal fans
- Hood Enclosure - Hood Light - Polycarbonate hinged front panel
- 2 x 2mtrs flexi-duct - 100mm diameter - Particulate filter - Power Lead - Data/Warranty Booklet - Lifetime Guarantee
- Dimensions : 950 x 640 x 615 (wxhxd) [internal] 955 x 750 x 800 (wxhxd) [overall] - 44kg weight
- Description :

Steel construction finished in grey - fan/filter unit mounted onto hood enclosure complete with clear polycarbonate panel and hood lighting - particulate filter - 2 x centrifugal blowers, external rotor motor type, brushless, UL, VDE and CSA approved - sealed electrical wiring and switch, downstream of filter. Flexi-ducts; 2 meters x 100mm dia.

Air Volume at Free Air : 710 m3/hr
 Ave. Air Velocity at Filter Face : 0.60 m/sec
 Ave. Air Velocity at Hood Face : 0.6 m/sec
 Filters : Standard Particle Filter - IFA2P. Upgraded Filters - EPA705P or HEPA705P
 Noise Level LAeq dB(A) : 60 db(A)

ESL58386



Particle Filter Ifa2p (Pack Of 6)

ack of 6 particle filters IFA2. For general spray and dust particle capture

ESL58402





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

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 approved - 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

ESL58398



Hood Mounted Filtration Cabinet

it is large dual-speed hood mounted filtration cabinet with high-efficiency 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

ESL58394



Water Swan Neck Tap Cold With Lever

Swan Neck Tap - Cold with Lever

ESL58550

Water Swan Neck Tap Hot

Swan Neck Tap - Hot

ESL58551



Gas Tap 2 Way 180 Degree

Gas tap double for bench mounting

ESL58559

Water Mixer Swan Neck Tap With Lever

Swan Neck Mixer Tap with Lever

ESL58549



Gas Tap 2 Way 90 Degree

Gas tap double for bench mounting

ESL58558



Vortex Mixers



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 stability
- Robust aluminum-cast construction



Wide range of accessories



Standard top (Default)

for $\varnothing 30\text{mm}$ 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




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 , Ø5mm (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 Adapter 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



Application of accessories

Accessories	Adjustable speed model (0-2500rpm)	
	Touch mode (High speed area)	Continuous mode (Low speed area)
VT1.1	Y	Y
VT1.2 + VT1.3.1	Y	
VT1.2 + VT1.3.2	Y	
VT1.2 + VT1.3.3	Y	
VT1.2 + VT1.3.4	Y	
VT1.2 + VT1.3.5	Y	
VT1.3 + VT1.3.6	Y	
VT1.3 + VT1.3.1		Y
VT1.3 + VT1.3.2		Y
VT1.3 + VT1.3.3		Y
VT1.3 + VT1.3.4		Y
VT1.3 + VT1.3.5		Y





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



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.

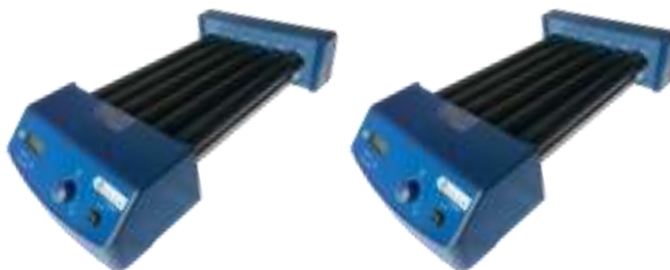
Labware



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



Orbital Motion

LCD Digital Orbital Shaker

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

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	ESL58497/10	ESL58497/4
Orbital diameter	10mm	4mm
Max. load capacity (with platform)	7.5kg	2.5kg
Motor type	Brushless DC motor	Brushless DC motor
Motor input power	28W	28W
Motor output power	15W	15W
Speed range	100-500rpm	100-800rpm
Speed display	LCD	LCD
Timer display	LCD	LCD
Time settings range	1min-99h59min	1min-99h59min
Voltage, Frequency	100-240V, 50/60Hz	100-240V, 50/60Hz
Power	30W	30W
Weight	12kg	8.1kg
Permissible ambient temperature and humidity	5-40°C, 80%RH	5-40°C, 80%RH
Dimension[WxDxH]	370x420x100mm	300x340x100mm
Protection class	IP21	IP20
Data connector	RS232	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



Labware

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.

Rocking Shaker Platform LED ESL58498



Orbital Motion





**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 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



LCD Digital Linear Shaker

ESL58500/10

Features

- **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.



Linear Motion



Labware

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





ESL58500/4

ESL58500/
20

Linear Motion

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-L180-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	30W	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	294X348X130mm
Protection class	IP21	IP20
Data connector	RS232	-



Digital Rocking Shaker 9" LCD ESL58501/9

Digital Rocking Shaker 7" LED ESL58501/7

Features

- Rocking motion angle 9°(R330-Pro) and 7°(R1807-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(R330-Pro)
- Fixed work plate(R1807-S)
- Simple appearance, save operating space

Applications

Designed for time-dependent and low rpm sensitive shaking

applications such as ELISA washes, enzyme immunoassays, protein synthesis, hybridization staining/destaining gels, immune precipitation and Western blots, cell culture, pharmaceutical profiling, etc.



ESL58501/9



ESL58501/7



Rocking Motion

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	20W
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	50W	20W
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 (D3309-Pro)

Applications

3D shaker used for uniform shaking mixing in flasks, culture flasks, petri dishes and tubes. Ideal for culturing a variety of cell 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	294X348X170mm
Protection class	IP21	IP20



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 16x5-15mL tubes, use with SK330.5	■	■	■	■				
 58402846	Silicone mattress for 6x 50mL tubes, use with SK330.5	■	■	■	■				
 58400185	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	SK180.5 transparent Cover for Syphilis Serum Test, 32x32x8.3cm						■	■	
 58402852	Silicone mattress for 10x 5-10mL tubes						■	■	■
 58402853	Silicone mattress for 4x 50mL tubes						■	■	■
 58400027	SK330.1, Universal attachment with 4 bars Size: 32x32cm Capacity for flask: 25mLx21pcs, 50mLx15pcs, 100mLx12pcs, 250mLx6pcs, 500x4pcs	■	■	■	■	■			
 58400040	SK330.3 Lengthways roller attachment, Mainly used for separation funnel oscillation extraction applications 500mL*3pcs 250mL*4pcs 100/125mL*4pcs 500mL*5pcs	■	■	■	■	■			
 58400025	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						■	■	■

Labware



Cat. No.	Description	ESL58497/10	ESL58500/10	ESL58501/9	ESL58496/9	ESL58499	ESL58497/4	ESL58500/4	ESL58500/20 <small>Multi functional models</small>
 58400036	Bar for SK330.1 universal attachment	■	■	■	■				
 58400037	Bar for SK180.1 universal attachment						■	■	■
 58400280	Connect sticks for double dishes shaker	■	■	■	■	■	■	■	■
 58400028	SK330.2, Fixing clip attachment Size: 32 x 32cm	■	■	■	■				
 58400026	SK180.2, 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

Applications

Designed for rapidly homogenize, emulsify, suspend and disrupt biological samples like tissue of animal, bacteria, yeast, plant samples, etc. in liquids. Ideal for samples from 0.1mL to 250mL depending on shaft chosen.



Labware

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
Voltage, Frequency	110-120V/60Hz 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

Cat. No. 58460543

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



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 D500 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, dairy 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.

- 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

Specifications	ESL58465
Speed range	10000-30000rpm
Max linear velocity	22.7-36m/sec
Speed Level	6 stage
Working volume	10-40000mL
Max. viscosity	10000mPa·s
Material of dispersing shaft	SS 316L stainless steel, PTFE
Noise Level	79dB(A)
Protection class	IP20
Voltage, frequency	110-120V/60Hz, 220-240V/50-60Hz
Power	500W
Motor type	AC carbon brush motor
Dimension [WxDxH]	75x75x280mm
Weight	1.7kg
Permissible ambient temperature and humidity	0-40°C, 85%RH



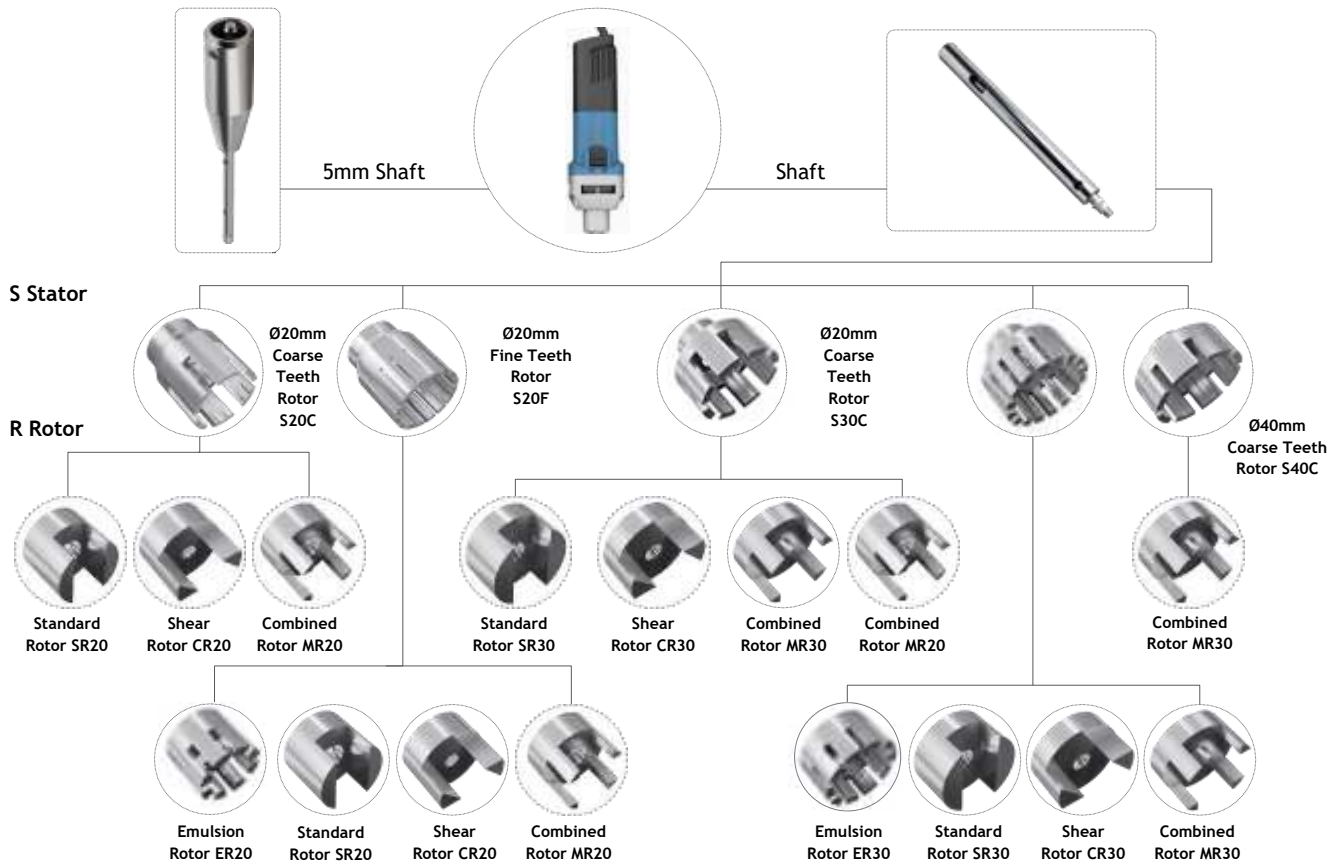
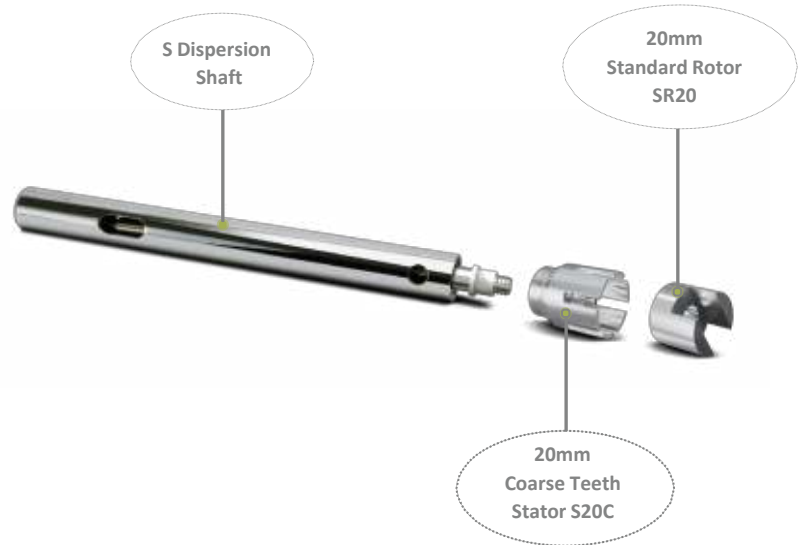
Dispersion Head Selection Guide

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.





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

Stator & Rotor		Purpose	Working Volume	Max. circum. Speed	Rotor Dia.	Stator Dia.	Min./Max.	Granularity (µm)		Application
Combinations								mL	m/s		mm	mm	Immersion Depth	Suspension	Emulsion
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 speed 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	S30C 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 speed mixing		CI,F,SP
58460117	SS5CSR5	Small amount solid-liquid mix	1-50	6.3	4	5	40/60	10-50	1-10	BT,M

Note:

BT: Biotech; F: Food; P: Pharmaceuticals; 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: Tobacco 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.)



Overhead

Appliances

Labware

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[H ₂ O]	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



NEW**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 x D x H] :
3.5x46.3x78cm

















Material: cast iron

Specifications**ESL58466****ESL58467**

Max. stirring quantity[H ₂ O]	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:

<p>Propeller stirrer</p> <p>Cat. No. 58460071</p> <p>Shaft length: 40cm Stirrer diameter: 5 cm Shaft diameter : Ø8 mm Material: 316L stainless steel Standard stirring applications at medium and high speed</p> 	<p>Paddle stirrer</p> <p>Cat. No. 58460073</p> <p>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</p> 
<p>Straight stirrer</p> <p>Cat. No.58460072</p> <p>Shaft length: 40 cm Stirrer diameter: 4 cm Shaft diameter : Ø8 mm Material: 316L stainless steel Standard stirring applications at medium and high speed</p> 	<p>Centrifugal stirrer</p> <p>Cat. No. 58460074</p> <p>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.</p> 
<p>Propeller stirrer</p> <p>Cat. No. 5846075</p> <p>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</p> 	<p>Paddle stirrer</p> <p>Cat. No. 58460077</p> <p>Shaft length: 35 cm Stirrer diameter: 6.8 cm Shaft diameter: Ø8 mm Material: PTFE coated For gentle mixing at low and medium speeds</p> 
<p>Straight stirrer</p> <p>Cat. No. 58460476</p> <p>Shaft length: 35 cm Stirrer diameter: 7 cm Shaft diameter : Ø8 mm Material: 316L stainless steel Standard stirring applications at medium and high speed</p> 	<p>Centrifugal stirrer</p> <p>Cat. No. 58460478</p> <p>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.</p> 
<p>Grand propeller stirrer</p> <p>Cat. No. 58460478</p> <p>Shaft length: 60 cm Stirrer diameter: 10 cm Shaft diameter: Ø8 mm Material: 316 L stainless steel Standard stirring</p> 	<p>Grand paddle stirrer</p> <p>Cat. No. 58460499</p> <p>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</p> 
<p>Grand anchor stirrer</p> <p>Cat. No. 58460698</p> <p>Shaft length: 60 cm Stirrer diameter: 10 cm Shaft diameter: Ø8 mm Material: 316 L stainless steel Standard stirring or for those easily precipitate</p> 	<p>Grand dissolving stirrer</p> <p>Cat. No. 58460500</p> <p>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</p> 
<p>Flat-blade stirrer</p> <p>Cat. No. 58460625</p> <p>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</p> 	<p>Anchor stirrer</p> <p>Cat. No. 58460627</p> <p>Shaft length: 40 cm Stirrer diameter: 6 cm Shaft diameter : Ø8 mm Material: 316L stainless steel Suitable for low speed stirring, medium viscosity and high viscosity materials</p> 
<p>Radial-flow stirrer</p> <p>Cat. No. 58460626</p> <p>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</p> 	<p>Spiral stirrer</p> <p>Cat. No. 58460628</p> <p>Shaft length: 40 cm Stirrer diameter: 5 cm Shaft diameter : Ø8 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</p> 





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, durable 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:2680xg
Rotor capacity:2mL/1.5mLx8,0.2mLx8,0.5mLx8
Rotor material:High strength plastic
Available rotor adapters:SA02P2, SA05P2



ESA04-RCR8

Max. speed:7000rpm
Max. RCF:2680xg
Rotor 0.2 mlx32 PCR strips, 0.2 mlx4 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:10rpm
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 13x75mm blood collection tube



ES2P17

1.5/2ml Cryogenic Vials/ centrifuge tube adapter

EduScience uk ESL-506 low-speed centrifuge, supplied with built in fixed angle rotor ESA6-15P which can hold up to 6 x 5mL / 10mL/7mL



High Speed Mini Centrifuge ESL58508

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
- ESL-2012 Pro passed the rigorous explosion-proof test according to IEC/ E/V 61010-2-20. It is certified with CE, cTUVus, FCC



Brushless DC motor



LCD display



CE

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



A12-2P for 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×g, Speed accuracy ±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

ESL58505





Hematocrit Centrifuge ESL-1224 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 ESL-1424 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



High Speed Micro Centrifuge

ESL58509

ESL58510

Unique Features

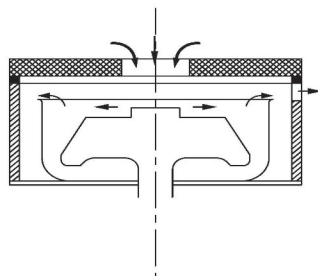
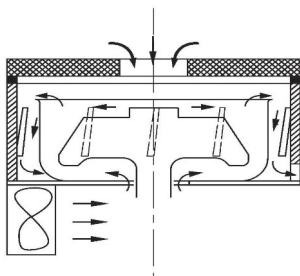
- Patent multi-flow air cooling design to provide air exchange to prevent chamber warming
- Three-layer seal ensure airtightness and biosafety
- High strength aluminum alloy rotor can be fully autoclaved for unlimited service life
- Four rotors are optional complete with 24 places 1.5/2.0mL tubes, bigger 5.0mL, smaller 0.2mL and 0.5mL tubes with adapters



Labware

Effective Ventilation System

Conventional design



Proprietary design of dual path ventilation enforcing air cooling from both the upper and lower side for the rotor.

Limiting ventilation on the upper side of the rotor



Brushless DC motor



Wide range of rotors





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
Rotor Capacity	5mLx18, 5mL culture tubex12 0.2mL/0.5mL/1.5mL/ 2mLx24, 0.5mLx36,PCR8x4	5mLx18, 5mL culture tubex12 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





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.

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° Cand D2012 rotors less than 8° C after running an hour

Three rubber seals fitted to achieve bio-safe condition

Seals within the aluminum alloy rotor



Rotors and Adapters

**ES24-2**

for ES3024 & ES3024R

Max. speed: 15000rpm

Max. RCF: 21380×g

Rotor capacity: 2mL/1.5mL×24/0.2mL×24/0.5mL×24

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×g

Rotor capacity: 5mL×12(Eppendorf tube)

Rotor material: Aluminum alloy

Bio-safe(Bio sealing): Yes

**ES36-05**

for ES3024 & ES3024R

Max. speed: 15000rpm

Max. RCF: 21380×g

Rotor capacity: 0.5mL×36,0.2mL×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 adapters



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 continuous running
- Pulse Key for quick spin function
- 9 procedures stored in memory makes the operation much simplified
- Maintenance-free brushless DC motors

ES UK ESL58506 Multi-Purpose Low-speed Centrifuge is ideal for the centrifugation of samples in clinical chemistry, cytology, research laboratories, industrial laboratories, etc.

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 100mL 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

Cat. No. 58500045

for S4-100 rotor



SE4-100(Standard accessory)

Cat. No.58500041

for ESL58506

Max. speed: 4000rpm

Max. RCF: 2950×g

Rotor material: stainless steel body and adapter



A15V

Cat. No. 58500025

15ml conical tube adapter, MOQ 8 Pcs (optional)



19400045



19400044



19400043



19400042

bucket	x 4															
tube	x 36		x 16			x 8		x 4		x 4		x 8		x 20		
Nominal volume	3-7mL		10mL	12mL	15mL	50mL	100mL	85mL	50mL	15mL	3-7mL					
φ×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																
adapter	with plug															
Package	36					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



Cat. No. 58500062

ES2-MP

ESL58506

Max. speed: 4000rpm
 Max. RCF: 2200×g
 Rotor capacity: Micro-plates 384-PCR/96-PCR/Elisa plates×8pcs; Deep well plates×4pcs
 Rotor material: stainless steel body and aluminum buckets



Cat. No. 58500036

ES12-PCR8

ESL58506

Max. speed: 6000rpm
 Max. RCF: 4020×g
 Rotor capacity: PCR 8 trips×12
 Rotor material: aluminum
 Biosealing: Yes



Cat. No. 58500034

ES30-2

ESL58506

Max. speed: 6000rpm
 Max. RCF: 4020×g
 Rotor capacity: 2mL×30
 Rotor material: aluminum
 Biosealing: Yes



Cat. No. 58500037

ES60-2

ESL58506

Max. speed: 6000rpm
 Max. RCF: 4020×g
 Rotor capacity: 2mL×60
 Rotor material: aluminum
 Biosealing: Yes



Available rotors



Cat. No. 58500038

ES6-50V (cone bottom)

ESL58506
Max. speed: 6000rpm
Max. RCF: 4020×g
Rotor capacity: 50mL×6 or 15mL×6
Rotor material: aluminum
Biosealing: Yes



Cat. No. 58500035

ES18-5V (cone bottom)

ESL58506
Max. speed: 6000rpm
Max. RCF: 4020×g
Rotor capacity: 5mL×18
Rotor material: stainless steel body and aluminum buckets
Biosealing: Yes



Cat. No. 58500039

E8-50 (round bottom)

ESL58506
Max. speed: 5000rpm
Max. RCF: 3960×g
Rotor capacity: 50mL×8 or 15mL×16
Rotor material: aluminum body and stainless steel adapter
Default adapters: SE100P31x8,SE100P17x6



Cat. No.1158500040

E30-15 (round bottom)

ESL58506
Max. speed: 4500rpm
Max. RCF: 3210×g
Rotor capacity: 15mL×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
A30-15	15mlx30	17.5	98	123	4500
S2-MP	Micro platex8/ Deep well	-	-	-	4000



Multi-Purpose Low-speed Centrifuge



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 x4, 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: 8×15mL or 12×10mL	
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×24 Rotor material: High strength plastic	
Default adaptor: A15P22, A5P17	



A15P22	Cat. No. 58519021
15mL adapter for 17×120mm centrifuge tube, 13/16×100mm blood collection tube 24 pcs/pk, for S6-15, A24-15P, A8-15P	




A5P17	Cat. No. 58519022
5mL adapter, Adapted to 13×75mm 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 ^(Optional)	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 ensure 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.
- 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) × 553(depth) × 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 Model 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

Labware



Centrifuge Body ,Swing Rotor ESL-R55S , Bucket ESL-C55 , Rack R5015-4C Power Cable , Manual



Multi-Purpose Refrigerated Centrifuge Model ESLS-550

Main Feature

Multi-Purpose Refrigerated 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

Swing Rotor



VR-55S
4500RPM, 3755G
250ml x 4 tubes, R165mm

Sealing Bucket



VC-55
250ml
Sealing Cap available
Alluminum alloy

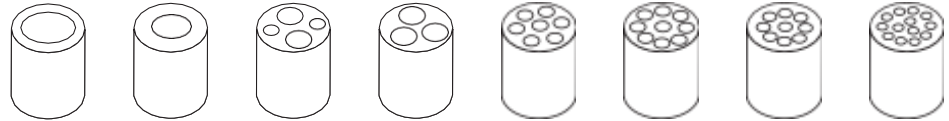
Micro-plate Rotor

Micro-plate Rotor

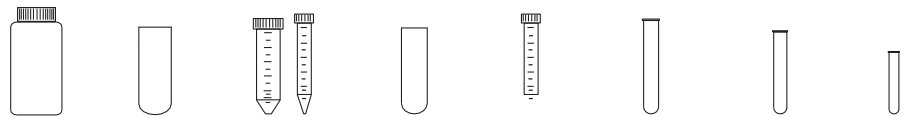


VR-02MS
2500RPM
2000G
96well Micro-plate x 2EA

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
14000 RPM, 20817G
V506A-55
50ml x 6tubes
14000 RPM, 20817G

Conical Tube-15ml



V1512AC-55
conical tube
15ml x 12tubes
12000 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

Centrifuge Hand, 4 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.

ESL58529



Centrifuge Tube Sterile Bulk-Pp, 15ml

SPINNING Centrifuge Tube Sterile Bulk-PP,

ESL58537 15ml, 25/pack

ESL58538 50ml, 25/pack



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)	SKU # Without Rack	SKU # With Rack
0.1-10µL	ESL56955	ESL56955R
10 - 200µL	ESL56956	ESL56956R
100 - 1000µL	ESL56957	ESL56957R



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



Eppendorf Tubes 1.5 ml Autoclavable

Alas Description Autoclavable Eppendorf Tubes
Capacity : 1.5 ml Pk/500 Pcs

ESL58541

Eppendorf Tubes 2 ml Autoclavable

Alas Description Autoclavable Eppendorf Tubes
Capacity : 2 ml Pk/500 Pcs

ESL58541





Vacuum Pump Hand Operated

Hand Operated Vacuum Pump

ESL58470



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

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 l/Min * Motor rotation: 1750 RPM * Horse power: 1/8 HP * Noise level: 50.0dB

ESL58472



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 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 Volume range : 0.5-5 ml
 ESL58591 Volume range : 1.0-10 ml

ESL58592 Volume range : 2.5-25 ml
 ESL58593 Volume range : 5.0-50 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)

ESL58590ADV	Volumes 5 mL	0.5-5 Advance Graduation : 0.1 ml
ESL58591ADV	Volumes 10 mL	1.0-10 Advance Graduation : 0.2 ml
ESL58592ADV	Volumes 25 mL	2.5-25 Advance Graduation : 0.5 ml
ESL58593ADV	Volumes 50 mL	5.0-50 Advance Graduation : 1 ml
ESL58594ADV	Volumes 100 mL	10-100 Advance Graduation : 2 ml

Labware

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 100µL Volume Accuracy Dispenser: R = 10mL ±30µL; CV = 10ml ±10µL Stepper: R = 1mL ±6µL; CV = 1ML ±9µL Operating Temperature Range 10oC-30oC Quality Control DIN EN ISO 8655 Control Type External control

ESL58595



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 8655 Control Type : External control, including the stirrer and the burette program

ESL58598

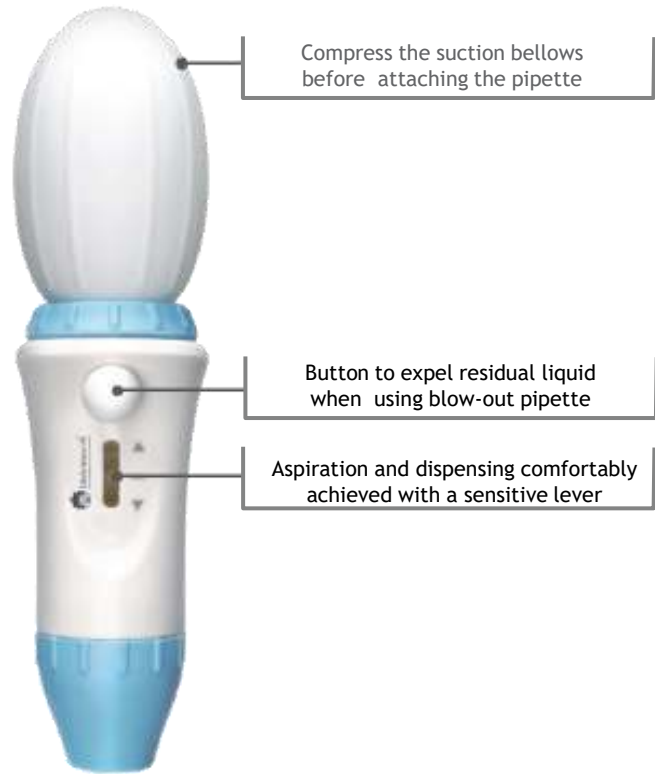


Pipettes

**Pipette Controller
ESL58568**

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



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

- ESL56391 2 ML**
- ESL56392 10 ML**
- ESL56393 25 ML**

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



3µm replaceable Hydrophobic filter

Silicone adapter for 0.1-100mL pipette tip, fully autoclavable



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.

Mini Pipette

Features

- 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.



Volumes	Color
200ul	Gray
100ul	Blue
75ul	Red
50ul	Orange
30ul	Yellow
25ul	Dark Green
OEM	Optional



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 by pressing the button



Labware

Pipette Filler Electronic ADV ESL58570

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		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

SKU	Volume Range	Increment	Test Volume	Error limits in accordance with ISO8655-2			
				(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
- 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

Fixed Volume Pipettes

SKU	Volume Range	Increment	Test Volume	Error limits in accordance with ISO8655-2			
				(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



Micro-pipette Variable Range Basic

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 0.1 μ L 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 Range	Increment	Test Volume	(Accuracy error)		(Precision error)	
				%	μ L	%	μ L
ESL58573	0.1-2.5 μ L	0.05 μ L	2.5 μ L	2.50%	0.0625	2.00%	0.05
			1.25 μ L	3.00%	0.0375	3.00%	0.0375
			0.25 μ L	12.00%	0.03	6.00%	0.015
ESL58574	0.5-10 μ L	0.1 μ L	10 μ L	1.00%	0.1	0.80%	0.08
			5 μ L	1.50%	0.075	1.50%	0.075
			1 μ L	2.50%	0.025	1.50%	0.015
ESL58575	2-20 μ L	0.5 μ L	20 μ L	0.90%	0.18	0.40%	0.08
			10 μ L	1.20%	0.12	1.00%	0.1
			2 μ L	3.00%	0.06	2.00%	0.04
ESL58576	5-50 μ L	0.5 μ L	50 μ L	0.60%	0.3	0.30%	0.15
			25 μ L	0.90%	0.225	0.60%	0.15
			5 μ L	2.00%	0.1	2.00%	0.1
ESL58577	10-100 μ L	1 μ L	100 μ L	0.80%	0.8	0.15%	0.15
			50 μ L	1.00%	0.5	0.40%	0.2
			10 μ L	3.00%	0.3	1.50%	0.15
ESL58578	20-200 μ L	1 μ L	200 μ L	0.60%	1.2	0.15%	0.3
			100 μ L	0.80%	0.8	0.30%	0.3
			20 μ L	3.00%	0.6	1.00%	0.2
ESL58579	50-200 μ L	1 μ L	200 μ L	0.60%	1.2	0.15%	0.3
			100 μ L	0.80%	0.8	0.30%	0.3
			50 μ L	1.00%	0.5	0.40%	0.2
ESL58580	100-1000 μ L	5 μ L	1000 μ L	0.60%	6	0.20%	2
			500 μ L	0.70%	3.5	0.25%	1.25
			100 μ L	2.00%	2	0.70%	0.7
ESL58581	200-1000 μ L	5 μ L	1000 μ L	0.60%	6	0.20%	2
			500 μ L	0.70%	3.5	0.25%	1.25
			200 μ L	0.90%	1.8	0.30%	0.6
ESL58582	1000-5000 μ L	50 μ L	5000 μ L	0.50%	25	0.15%	7.5
			2500 μ L	0.60%	15	0.30%	7.5
			1000 μ L	0.70%	7	0.30%	3
ESL58583	2-10mL	0.1mL	10mL	0.60%	60	0.20%	20
			5mL	1.20%	60	0.30%	15
			2mL	3.00%	60	0.60%	12



Labware





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 Range	Increment	Test Volume	Systematic Error		Random Error	
				µL	%	µL	%
ESL58573A	0.1-2.5	0.05	2.5	±0.0625	±2.50	±0.05	±2.00
			1.25	±0.0375	±3.00	±0.0375	±3.00
			0.25	±0.03	±12.00	±0.015	±6.00
ESL58574A	0.5-10	0.1	10	±0.1	±1.00	±0.08	±0.80
			5	±0.075	±1.50	±0.075	±1.50
			1	±0.025	±2.50	±0.015	±1.50
ESL58575A	2 - 20	0.5	20	±0.18	±0.90	±0.08	±0.04
			10	±0.12	±1.20	±0.1	±1.00
			2	±0.06	±3.00	±0.04	±2.00
ESL58576A	5 - 50	0.5	50	±0.3	±0.60	±0.15	±0.30
			25	±0.225	±0.90	±0.15	±0.60
			5	±0.1	±2.00	±0.1	±2.00
ESL58577A	10-100	1	100	±0.8	±0.80	±0.15	±0.15
			50	±0.5	±1.00	±0.2	±0.40
			10	±0.3	±3.00	±0.15	±1.50
ESL58578A	20-200	1	200	±1.2	±0.60	±0.3	±0.15
			100	±0.8	±0.80	±0.3	±0.30
			20	±0.6	±3.00	±0.2	±1.00
ESL58579A	50-200	1	200	±1.2	±0.60	±0.3	±0.15
			100	±0.8	±0.80	±0.3	±0.30
			50	±0.5	±1.00	±0.2	±0.40
ESL58580A	100-1000	5	1000	±6	±0.60	±2	±0.20
			500	±3.5	±0.70	±1.25	±0.25
			100	±2	±2.00	±0.7	±0.70
ESL58581A	200-1000	5	1000	±6	±0.60	±2	±0.20
			500	±3.5	±0.70	±1.25	±0.25
			200	±1.8	±0.90	±0.6	±0.30
ESL58582A	1000-5000	50	5000	±25	±0.50	±7.5	±0.15
			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 Volume	Systematic Error		Random Error	
				μL	%	μL	%
ESL58573P	0.1-2.5	0.002	2.5	± 0.04	± 1.4	± 0.02	± 0.7
			1.25	± 0.03	± 2.5	± 0.02	± 1.5
			0.25	± 0.03	± 12.0	± 0.02	± 6.0
ESL58574P	0.5-10	0.01	10	± 0.10	± 1.0	± 0.04	± 0.4
			5	± 0.08	± 1.5	± 0.04	± 0.8
			1	± 0.03	± 2.5	± 0.02	± 1.8
ESL58575P	2-20	0.02	20	± 0.20	± 1.0	± 0.06	± 0.3
			10	± 0.12	± 1.2	± 0.06	± 0.6
			2	± 0.10	± 5.0	± 0.03	± 1.5
ESL58576P	5-50	0.05	50	± 0.45	± 0.9	± 0.15	± 0.3
			25	± 0.35	± 1.4	± 0.20	± 0.8
			5	± 0.15	± 3.0	± 0.08	± 1.6
ESL58577P	10-100	0.1	100	± 0.80	± 0.8	± 0.20	± 0.2
			50	± 0.50	± 1.0	± 0.15	± 0.3
			10	± 0.30	± 3.0	± 0.10	± 1.0
ESL58578P	20-200	0.2	200	± 1.20	± 0.6	± 0.40	± 0.2
			100	± 1.00	± 1.0	± 0.30	± 0.3
			20	± 0.50	± 2.5	± 0.14	± 0.7
ESL58579P	30-300	0.2	300	± 1.80	± 0.6	± 0.60	± 0.2
			150	± 1.50	± 1.0	± 0.45	± 0.3
			30	± 0.75	± 2.5	± 0.21	± 0.7
ESL58580P	100-1000	1	1000	± 6.00	± 0.6	± 2.00	± 0.2
			500	± 5.00	± 1.0	± 1.00	± 0.2
			100	± 3.00	± 3.0	± 0.60	± 0.6
ESL58581P	1000-5000	5	5000	± 30.00	± 0.6	± 10.00	± 0.2
			2500	± 15.00	± 0.6	± 7.50	± 0.3
			1000	± 12.00	± 1.2	± 3.00	± 0.3
ESL58582P	2000-10000	10	10000	± 60.00	± 0.6	± 20.00	± 0.2
			5000	± 40.00	± 0.8	± 10.00	± 0.2
			2000	± 30.00	± 1.5	± 6.00	± 0.3



Micro-Pipette Multi Channel Variable Range Basic

Multi-channel, Mechanical, 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
- Can be used with universal style pipette tips



8-channel Adjustable Volume Pipettes

SKU	Volume Range	Increment	Test Volume	Error limits in accordance with ISO8655-2			
				(Accuracy error)		(Precision error)	
				%	µL	%	µL
ESL58584/0.51	0.5-10µL	0.1µL	10µL	1.50%	0.15	1.50%	0.15
			5µL	2.50%	0.125	2.50%	0.125
			1µL	4.00%	0.04	4.00%	0.04
ESL58584/55	5-50µL	0.5µL	50µL	1.00%	0.50	0.50%	0.25
			25µL	1.50%	0.375	1.00%	0.25
			5µL	3.00%	0.15	2.00%	0.1
ESL58584/503	50-300µL	5µL	300µL	0.70%	2.1	0.25%	0.75
			150µL	1.00%	1.5	0.50%	0.75
			50µL	1.50%	0.75	0.80%	0.4

12-channel Adjustable Volume Pipettes

SKU	Volume Range	Increment	Test Volume	Error limits in accordance with ISO8655-2			
				(Accuracy error)		(Precision error)	
				%	µL	%	µL
ESL58585/0.51	0.5-10µL	0.1µL	10µL	1.50%	0.15	1.50%	0.15
			5µL	2.50%	0.125	2.50%	0.125
			1µL	4.00%	0.04	4.00%	0.04
ESL58585/55	5-50µL	0.5µL	50µL	1.00%	0.5	0.50%	0.25
			25µL	1.50%	0.375	1.00%	0.25
			5µL	3.00%	0.15	2.00%	0.1
ESL58585/503	50-300µL	5µL	300µL	0.70%	2.1	0.25%	0.75
			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, 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
- Can be used with universal style pipette tips



8-channel Adjustable Volume Pipettes

SKU	Volume Range	Increment	Test Volume	Systematic Error		Random Error	
				µL	%	µL	%
ESL58584/0.51A	0.5-10	0.1	10	±0.15	±1.50	±0.15	±1.50
			5	±0.125	±2.50	±0.125	±2.50
			1	±0.04	±4.00	±0.04	±4.00
ESL58584/55A	May-50	0.5	50	±0.5	±1.00	±0.25	±0.50
			25	±0.375	±1.50	±0.25	±1.00
			5	±0.15	±3.00	±0.1	±2.00
ESL58584/101A	10-100	1	100	±0.8	±0.80	±0.3	±0.30
			50	±0.5	±1.00	±0.4	±0.80
			10	±0.3	±3.00	±0.2	±2.00
ESL58584/503A	50-300	5	300	±2.1	±0.70	±0.75	±0.25
			150	±1.5	±1.00	±0.75	±0.50
			50	±0.75	±1.50	±0.4	±0.80
ESL58584/1010A	100-1000	10	1000	±10	±1.00	±3	±0.30
			500	±10	±2.00	±2.5	±0.50
			100	±5	±5.00	±1	±1.00

12-channel Adjustable Volume Pipettes

SKU	Volume Range	Increment	Test Volume	Systematic Error		Random Error	
				µL	%	µL	%
ESL58585/0.51A	0.5-10	0.1	10	±0.15	±1.50	±0.15	±1.50
			5	±0.125	±2.50	±0.125	±2.50
			1	±0.04	±4.00	±0.04	±4.00
ESL58585/55A	May-50	0.5	50	±0.5	±1.00	±0.25	±0.50
			25	±0.375	±1.50	±0.25	±1.00
			5	±0.15	±3.00	±0.1	±2.00
ESL58585/101A	10-100	1	100	±0.8	±0.80	±0.3	±0.30
			50	±0.5	±1.00	±0.4	±0.80
			10	±0.3	±3.00	±0.2	±2.00
ESL58585/503A	50-300	5	300	±2.1	±0.70	±0.75	±0.25
			150	±1.5	±1.00	±0.75	±0.50
			50	±0.75	±1.50	±0.4	±0.80





Electronic Pipette Plus

For Pipetting Mixing, Stepper and Dilution



Electronic E Pipette

For Pipetting and Mixing

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-colibrioti0n applicable

Specifications

SKU	Channels	Volume Range	Increment	Test Volume	Accuracy Error		Precision Error	
		μL	μL	μL	μL	%	μL	%
ESL58586E1	1	0.5-10	0.01	10	± 0.10	± 1.00	± 0.05	± 0.50
ESL58587EP1				1	± 0.035	± 3.50	± 0.03	± 3.00
ESL58586E5	1	5-50	0.1	50	± 0.40	± 0.80	± 0.15	± 0.30
ESL58587EP5				5	± 0.15	± 3.00	± 0.125	± 2.50
ESL58586E3	1	30-300	1	300	± 1.80	± 0.60	± 0.60	± 0.20
ESL58587EP3				30	± 0.09	± 3.00	± 0.21	± 0.70
ESL58586E10	1	100-1000	5	1000	± 6.00	± 0.60	± 2.00	± 0.20
ESL58587EP10				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 ESL58588

The universal linear pipette holder designed and manufactured by ES is compatible with our 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.

Multi-Functional 8-channel Electronic Pipette

ES multi-functional high performance 8-channel electronic pipette offers 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 fatigue-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.

Three easy steps to operate

1

Long press the Parameter Knob for 2 seconds to Start

2

Quickly turn the Function wheel to Activate, Rotate to Switch Pipetting, Continuous Dispensing, and other Function Settings

3

After quickly turning the Parameter Knob to Unlock, Turn to Adjust the Volume, Press to Pipette, Long press to Mix



Pipettes Stand Round ESL58588R

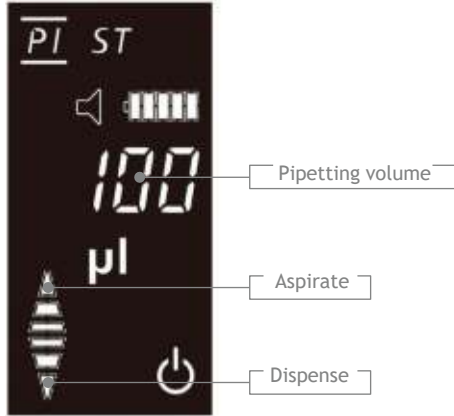
The universal circular pipette holder designed and manufactured by ES is compatible with the Dragon pipette series - MicroPette Plus pipettes. The freely rotatable circular pipette holder can securely hold up to 6 single and multi-channel pipettes.



Electronic Pipette

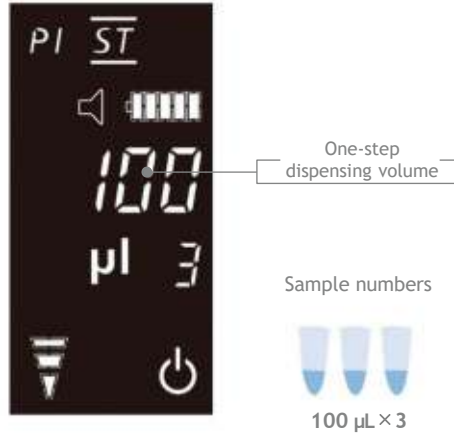
Pipetting function

Parameter Knob press → Pipetting
 Long press → Mixing



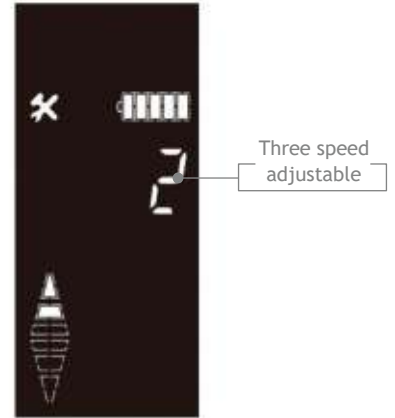
Stepper function

Maximum steps = Pipette nominal volume / One step dispensing volume



Other function

Pipetting speed adjustment
 Key tone ON/OFF



Supports dual charging mode



Complimentary Pipette Holder

Support automatic Calibration

Connect it to the computer, with the free software provided for calibration

Specifications

8-channel Adjustable Volume Pipettes							
SKU	Volume Range	Increment	Test Volume	Systematic Error		Random Error	
				µL	%	µL	%
ESL58589/8E1	8	0.5-10	0.01	10	±0.20	±2.00	±0.10
				5	±0.20	±4.00	±0.10
				1	±0.08	±8.00	±0.05
ESL58589/8E10	8	10-100	0.1	100	±0.80	±0.80	±0.30
				50	±0.50	±1.00	±0.40
				10	±0.30	±3.00	±0.20
ESL58589/8E15	8	15-300	1	300	±1.80	±0.60	±0.90
				150	±1.50	±1.00	±0.75
				15	±0.60	±4.00	±0.15
ESL58589/8E3	8	30-300	1	300	±1.80	±0.60	±0.90
				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

Technical Parameters

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



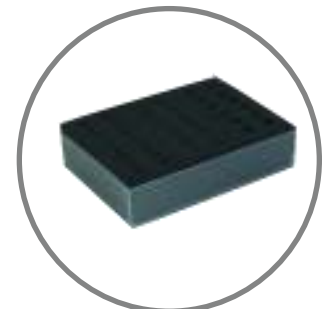
Rack of 96 Pipette Tips 0-200 µl
ESL556956R



PCR Thermal Cycler Basic
ESL58602S



Refrigerated Rack for PCR
ESL56950



Micro Centrifuge
ESL58503



Electrophoresis System
ESB52162



Thermal Cycler Regression ESL58603G

Thermal Cycler Regression Advance ESL58603GA

Thermal Cycler Standard ESL58603S

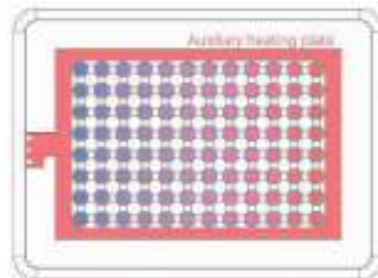
Thermal cycler is essential laboratory instrument in the field of molecular biology research such as sequencing, gene cloning, gene expression, mutagenesis applications and applied market like drug discovery, agriculture, food industry, etc.



Excellent temperature uniformity



Gradient function



Features

- 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~+9.9°C) and Long PCR time range (-9min59s~+9min59s)
- Gradient temperature setting supported, optimizing temperature easily in the single run
- 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
- Hot lid auto-off function: If the module temperature is lower than 30°C, the hot lid function will automatically turn off



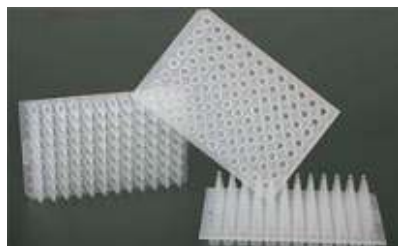
LCD touch panel



Excellent temperature accuracy



Labware



Specifications	ESL58603G	ESL58603GA	ESL58603S
Sample Capacity	96 ×0.2 mL PCR tube - 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, and storage for over 200 files		20000+ (USB FLASH)
Power off protection	Yes	Yes	Yes



Digital Rotary Evaporator ESL58609

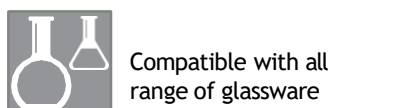
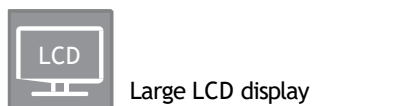
LCD Digital Rotary Evaporator is an essential instrument in chemical laboratories for the efficient and gentle removal of solvents from samples by evaporation. It offers an excellent distilling solution in a wide range of applications.



Features

- 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



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



NEW

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.



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

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

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.



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



Flake Ice Maker

ELS-625FS
ESL-625F
ESL-625

- Flake Type Ice Maker
- Full Automation
- Screw Turbine Level



Flake Ice Maker		ESL-625FS	ESL-625F	ESL-625
Production Day		80 kg	120 Kg	180 KG
Storage Capacity		58 Liter	120 Liter	120 Liter
Compressor		1/3HP ,R404A	1/3HP ,R404A	1/2HP,R404A
Dimension	(In)	345 x 450 x 740 (H)mm	450 x 420 x 6300 (H)mm	485 x485 x510(H)mm
	(Out)	600 x 560 x 740 (H)mm	675 x 560 x 1065 (H)mm	990 x635 x1190 (H)mm
Material	(In)	Stainless Steel	Stainless Steel	Stainless Steel
	(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 Level Sensor, Water Level Sensor		
Accessory		Drain & supply Gose, , Scoop		



ESL-625FS

ESL-625F

ESL-625



Laminar Flow Clean Bench

ESL-700LV

Features

- Micro Processor Control
- Easy 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

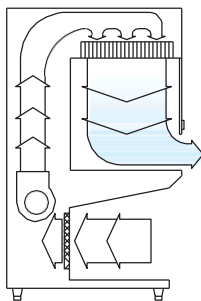


Suction Pump

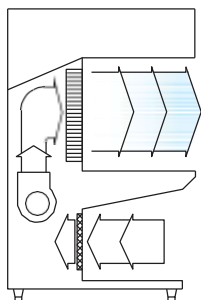
Option



Labware



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)	(In) 1200 x 620 x 7 710	(Out) 1320 X 790 X 1920
Material	(In) Stainless Steel	(Out) 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	



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



Suction Pump

Option



Model	EESL-801SC	ESL-802SC	ESL-803SC	ESL-804SC
Dimension (In)	960 X 580 X 670	1160 X 580 X 670	1460 x 580 x 670	1660 x 580 x 670
(WXDXH) (mm) (Out)	1100 X 770 X 2310	1300 x 770 x 2130	1600 x 770 x 2310	1800 x 770 x 2310
type	Bio Hazard Safety Type, Glass II Type			
Main Control	Microprocessor Control with Touch 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 (In)	Working table Stainless Steel SUS 304			
(Out)	Cabinet Steel plate with Powder Coating			
Illumination	40w flurosecent 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



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FURNITURE

- Classroom Furnitures
- laboratory Fittings





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.

ESA62324





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 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.

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

ESA62327



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

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 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 x 700 x 1850mm (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

ESA62334





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

Quiet 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, re-circulatory 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

ESA62335	W 900 x d 460 x h 700mm	Number of shelves - 1, Number of doors - 2, Dimensions : 2
ESA62336	W 1200 x d 460 x h 1800mm	Number of shelves - 3, Number of doors - 2, Dimensions : 2
ESA62337	W 350 x d 300 x h 700mm	Number of shelves - 1, Number of doors - 1, Dimensions : 1
ESA62338	W 460 x d 460 x h 900mm	Number of shelves - 3, Number of doors - 1, Dimensions : 2
ESA62339	W 900 x d 460 x h 1800mm	Number of shelves - 3, Number of doors - 2, Dimensions : 2
ESA62340	W 900 x d 460 x h 900mm	Number of shelves - 2, Number of doors - 2, Dimensions : 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)

ESA62341	W 1200 x d 460 x h 1800mm	Number of shelves - 3, Number of doors - 2, Dimensions : 2
ESA62342	W 350 x d 300 x h 700 mm	Number of shelves - 1, Number of doors - 1, Dimensions : 1
ESA62343	W 900 x d 460 x h 1200 mm	Number of shelves - 2, Number of doors - 2, Dimensions : 2
ESA62344	W 900 x d 460 x h 1800 mm	Number of shelves - 3, Number of doors - 2, Dimensions : 2
ESA62345	W 900 x d 460 x h 700 mm	Number of shelves - 1, Number of doors - 2, Dimensions : 2
ESA62346	W 900 x d 460 x h 900 mm	Number of shelves - 1, Number of doors - 2, Dimensions : 2

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 ° 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.

ESA62348





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 x 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 x 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.





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

ESA62379



Lab Teacher Bench

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

ESA62401

**Lab Stools Standard ES 1**

Lab stools standard ES 1 with gas left and 5 prongs.

ESA62367

**Lab Stool Stacking PP**

Stool stacking PP 685mm black

ESA62366



ESA62415

MINI Tablet Charging Trolley - 10-bay or 12-bay

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 x AC continuous operation fans keep equipment cool Well-designed ventilation and continuous 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	Laptop/Mobile IT devices/Ethernet switch/Tablet					
Interface	Country-specific standard					
Charging NO.	10-way	11-way	12-way	13-way	More	OEM
USB port	19V 2.4A - USB-C					
Input	110V,220V,240V					
Output	110V,220Vor 19V/ SV. 2.4A					
Outlet type	UK BS1363	Germany DIN49441	French DIN49441	Australia AS/NZS311 2	IEC C13/C14 C19/C20	Other GB1002 BS546...



Standard configuration	<ol style="list-style-type: none"> 1. Embedded handle 2. Handle lock 3. LED indicator 4. Operating handle 5. Cam-key lock 6. Earthing cable 7. Power module - USB
Optional	<ol style="list-style-type: none"> 1. Lights decoration 2. Time controller 3. Glass door 4. Master Device shelf 5. Other idea



[Additional design for different environments]

Different color options

Side/top panel punched with vented area (tropics)



RoHS





ESA62416

Sync & Charging Trolley

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 avoid accident wound.
- USB-A or USB-C outlet charging safe and quick (DC MODEL)
- 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 AC fans optional (Thermostat controlled fans will work automatically if necessary)
 - IP-20 rated
- Country-specific power cord = 1.5m long
Power System: input/output = 110-250V-MAX AC input



Warranty

Five (5) years mechanical/workmanship; two (2) years electrical components; one (1) year cables
Ships fully assembled=



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



RoHS



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 communicat
 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)



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)





ESA62417

Tablet Charging Trolley

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 household power system.

The reliable, ergonomic structure designed from SPCC cold rolled steel, upon education application makes the O2 cabinet work 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

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 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
=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



RoHS





Cabinet specifications

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	
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	
Visible	X-cart inner environment	
	Each Port details (Volt , consumption , Protocol , etc..)	
ON/OFF	Remotely switch on each layer	
Timer setting	Weekly pattern timer setting on charging period frame	
Theme	3 colored theme interface options	

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	

Applications

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)



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)



Cleaning and Maintenance

Cabinet and Equipment Electric Safety

There are specific risks associated with the use of equipment having power cables.

You must be aware of, and avoid these risks when this product is located in close proximity to children.



WARNING: Failure to observe the following Electrical Safety notices can result in fire or death by electric shock.



Electrical cables can be hazardous. Misuse can result in fire or death by electrical shock.

- Double Pole / Neutral Fusing
- Inspect power cables thoroughly before each use.
- Do not use cables that are damaged.
- Insert the plug completely into the outlet.
- Grasp the plug to remove from the outlet.
- Do not unplug by pulling on the cable.
- Do not use excessive force to make connections.
- Do not plug the cable into an extension cable.
- Do not remove, bend or modify any metal prongs or pins of cable.
- Do not drive, drag or place objects over the cable.
- Do not walk on the cable.
- Avoid overheating. Uncoil the cable and do not cover it with any material.
- Do not run cable through doorways, holes in ceilings, walls or floors.



Keep this product away from water.

- Do not use it when wet.
- Do not place this product in close proximity to flammable liquids or gases.

The power cord acts as the connect/disconnect device switching power off and on.

Cabinet Use Safety

There are specific risks associated with the use of this product when moving or stationary (for charging or storage)

You must be aware of, and avoid these risks when this product is located in close proximity to children.



WARNING: Failure to observe the following Safety notices may result in serious personal injury or equipment damage.

- Do not allow children to move this product.
- Do not allow anyone to sit, stand, or climb on this product.
- Do not block the fans and vent openings. To prevent overheating, leave at least 25.4 mm (1-inch) clearance around fans and vents.

This product is designed to be used indoors only.

- Do not use this product to transport or store equipment other than what has been noted in this guide.
- Do not use this product to store liquids or cleaning supplies.
- Do not place heavy objects on the top surface or shelf.
- The maximum weight capacity of the top surface is 25 lb (11.3 kg).
- The maximum weight capacity of the shelf is 61.2 lb (27.8 kg).



Moving This Product

Before moving this product:

1. Disconnect the power cables from the wall.
 2. Make sure the cables are wrapped and secure.
 3. Close and lock the doors.
 4. Remove notebook and other items from the top work surface.
- Two people are required to lift this product; use caution when lifting to prevent muscle strain.

Placement

Observe these safety alerts for times when this product is stationary:

- Do not place on an object or surface that cannot support its weight: 660 lbs (300 kg).
- Do not run cables through doorways, holes in ceilings, walls, or floors.
- Do not run cables across hallways, classrooms, or other areas where they will be walked on.
- Do not leave unattended in areas where children have access.
- Keep doors closed and locked whenever it is unattended or parked for charging or storage.



ESA62418

Tablet Charging Trolley

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 household power system.

2-3 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 x 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
- Flat top panel allows Master Device put onto top.
- 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
- =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 #	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



RoHS



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	-
	-
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
LED screen	Digital LED screen to show inner environment



ESA62419

Smart Charging Trolley

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.
- 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 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
=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



RoHS



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 communicat
 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)



ESA62420

Smart Charging Cart WB-CC-H

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



Smart Locker



Furniture

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 if necessary)
- IP-20 rated
- Country-specific power cord = 1.5m long
- Power System: input/output = 110-250V~ MAX AC input



Warranty

Five (5) years mechanical/workmanship; two (2) years electrical components; one (1) year cables
=Ships fully assembled=



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



RoHS



Cabinet specifications

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 specifications

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 , Control

Connecting	-
	Charging status
	Door status
Visible	-
	-
ON/OFF	√
Timer setting	optional
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
Cooling system	AC cooling fan system
Timer	Timer for charging plan
UV lamp	Build-in UV lamp for each layer

Fit devices of

LAPTOP

Fit Max. up to 15.6 “
 Support 45W, 65W
 USB-A 2.0 female outlet communicat
 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)

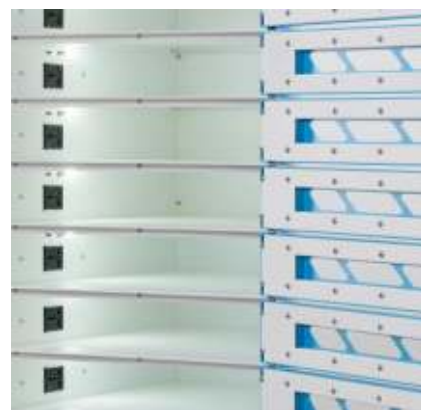


MOBILES

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)



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