

5 - Specimen preparation equipment

Pestle and mortar

Porcelain pestle and mortar with unglazed grinding surfaces. The mortar has a spout, and is glazed on the outside.

G3527 Pestle and mortar, 70 mm dia



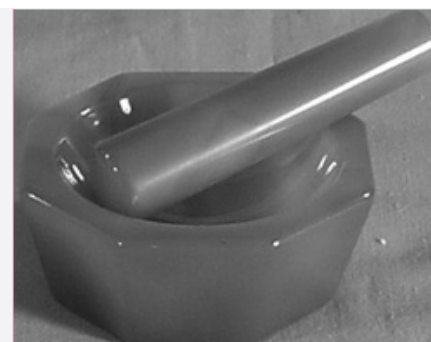
Agate pestle and mortar set

Agate pestle and mortar set, recommended for use with very hard samples. Agate is much harder than porcelain, thus reducing the level of impurities introduced into the sample during grinding. Available in three sizes. Internal diameter and height are shown.

G3707-1 Agate pestle and mortar, 35 x 10 mm

G3707-2 Agate pestle and mortar, 50 x 18 mm

G3707-3 Agate pestle and mortar, 65 x 18 mm



Weighing boats

Diamond-shaped disposable weighing boats made from high impact polystyrene. The design allows them to be bent to give a funnel shape, avoiding spillage on transfer of the contents. The flat base ensures stability on the balance pan, and the smooth finish aids complete removal of the weighed material. Available in black or white, in three sizes.

G3909 Balance boats, 5 ml. Pack of 500

G3910 Balance boats, 30 ml. Pack of 100

G3911 Balance boats, 100 ml. Pack of 50



For black boats please add suffix B to catalogue reference.

Anti-static weighing boats

Weighing boats made of anti-static material. Designed for dispensing powdered and liquid materials, with a capacity of approximately 20 ml. Dimensions: 81 x 41 x 8 mm

G3934 Anti-static weighing boats. Pack of 250



Aluminium weighing dishes



Disposable aluminium weighing dishes with finger grip handle. Available in either 53 or 43 mm diameters, with a height of 17 and 12.5 mm respectively.

G3651 Aluminium dishes, 53 mm dia. Pack of 144

G3912 Aluminium dishes, 43 mm dia. Pack of 100

Weighing paper



Square weighing papers with a glossy surface, suitable for weighing out powders. Dimensions: 100 x 100 mm.

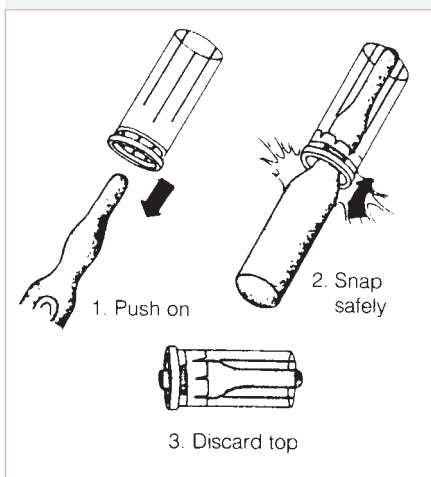
G3323 Weighing paper. Pack of 1000

Ampoule snappers



A safe and simple way to break open ampoules. Made from soft white silicone rubber. Suitable for 5, 7 and 10 ml ampoules.

C889 Ampoule snapper for 5 - 10 ml ampoules



Rigid wall disposable ampoule snappers, with a flexible collar to break pre-scored ampoules safely.

C808 Ampoule snappers for 1 - 4 ml ampoules. Pack of 100

C809 Ampoule snappers for 5 - 10 ml ampoules. Pack of 100

C8064 Ampoule snappers for 11 - 20 ml ampoules. Pack of 100

Pasteur pipettes

- G257** Pasteur pipettes, 145 mm. Box of 250
G259 Pasteur pipettes, 230 mm. Box of 250
G258 Rubber bulbs for pipettes, 2 ml. Pack of 10



Plastic Pasteur pipettes

Plastic pipettes are recommended where it is important to avoid the possibility of glass fragments, such as in embedded blocks, with the danger of damaging a diamond knife.

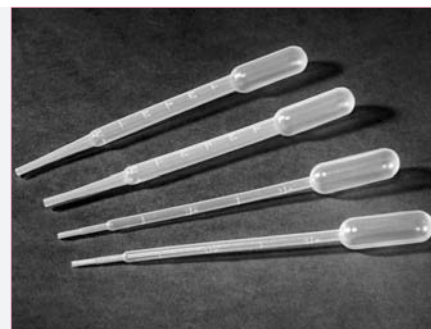
The 3.5 ml bulb is integral with the pipette for increased safety. Available in two sizes.

1 ml graduation with 0.25 ml increments, drop size 30 - 45 μ l

- G3374** Plastic Pasteur pipettes, 3 ml. Pack of 100
G3374-500 Plastic Pasteur pipettes, 3 ml. Pack of 500
G3375 Plastic Pasteur pipettes, 3 ml, sterile and individually packed. Pack of 100

3 ml graduation with 0.5 ml increments, drop size 35 - 55 μ l

- G3374A** Plastic Pasteur pipettes, 3 ml. Pack of 100
G3375A Plastic Pasteur pipettes, 3 ml, sterile and individually packed. Pack of 100



Disposable syringes

- G266** Disposable syringes, 1 ml. Pack of 25
G267 Disposable syringes, 2 ml. Pack of 25
G268 Disposable syringes, 5 ml. Pack of 25
G269 Disposable syringes, 10 ml. Pack of 25
G270 Disposable syringes, 20 ml. Pack of 25
G271 Disposable syringes, 60 ml. Pack of 10

G272 Coarse needles, size 19G x 1½". Pack of 10
G273 Fine needles, size 23G x 1¼". Pack of 10



Ultipette™



Slim micropipettes with excellent reproducibility, for use with very fine polyethylene capillary tips. These pipettes are ideal for dispensing gold sol preparations and particle dispersions. Available in two sizes, one with a working range of 1 - 10 µl in 1 µl increments, and the other with a range of 0.5 - 5 µl in 0.5 µl increments. Each pipette has a metal body with a stainless steel adjuster, for easy cleaning and sterilisation. A range of easy to fit replacement parts is also available.

- G3608-V5** Ultipette, 0.5 - 5 µl
- G3608** Ultipette, 1 - 10 µl
- G3609** Capillary tips. Pack of 500
- G3610** Spares pack



The Ultipette is also available with a stainless steel tip ejector, providing a safe and efficient way of removing the fine capillary tips.

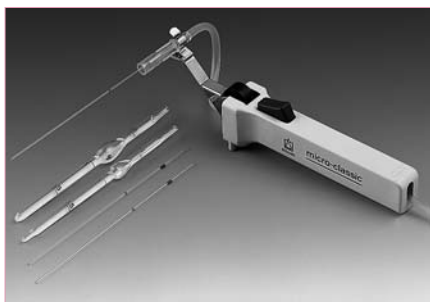
- G3611** Ultipette with ejector, 1 - 10 µl

These fixed volume pipettes are available with disposable tips to dispense 5, 10, 20 and 50 µl.

- G3608-5** Ultipette, 5 µl
- G3608-10** Ultipette, 10 µl
- G3608-20** Ultipette, 20 µl
- G3608-50** Ultipette, 50 µl

Other volumes available on request.

Micro-classic pipette controller



The micro-classic pipette controller is an indispensable accessory for sampling, especially when working under a microscope where a comfortable and reliable instrument is required. It is suitable for use with disposable ring mark and other small volume pipettes up to 1 ml with aspiration end diameter up to 5 mm. Suitable for both left and right handed operation and the adaptor and suction tube are autoclavable at 121 °C. It minimises the risk of contamination when working with infectious material. Each pipette controller is supplied with one spare suction tube.

- G3612** Micro-classic pipette controller

Glass microspray



Designed to atomise very small volumes of liquid, the spray is valuable in preparing virus and protein suspensions and a wide variety of other particle preparations. The spray is made of glass to facilitate thorough washing and autoclaving. It will operate with as little as 0.2 ml of suspension. It directs the suspension onto a grid lying on a horizontal surface through a right angled exit tube. A screw joint to the extension permits alternative attachment to a closed vessel for extra protection during the spraying of dangerous materials. The blowball attached to the air inlet is valved so there is no sucking back of vapour from the spray. Spray droplets sized down to 1 µl are formed.

- B701** Glass microspray

Replacement parts are available.

Anti-static gun

Many laboratories experience problems arising from static charges – dust adhering to pole pieces, grids jumping out of grid storage boxes, etc. These problems can be greatly reduced by an anti-static gun which sprays ions on to the surface in question. It has been found to be very helpful during sectioning, particularly cryo-sectioning.

G375 Anti-static gun



Beakers

Graduated polypropylene beakers for general laboratory use. They have good chemical resistance, and withstand temperatures up to 135 °C. Graduations are clearly printed using indelible, solvent-resistant ink.

- G3120** Beakers 10 ml, 1 ml graduations. Pack of 10
- G3121** Beakers 25 ml, 2.5 ml graduations. Pack of 10
- G3122** Beakers 50 ml, 5 ml graduations. Pack of 10
- G3123** Beakers 100 ml, 10 ml graduations. Pack of 10
- G3124** Beakers 250 ml, 25 ml graduations. Pack of 10
- G3125** Beakers 500 ml, 50 ml graduations. Pack of 10



Stacking beakers

Tapered polypropylene beakers with moulded graduations and non-drip pouring spouts.

- G3126** Beakers 25 ml, 5 ml graduations. Pack of 10
- G3127** Beakers 50 ml, 10 ml graduations. Pack of 10
- G3128** Beakers 100 ml, 20 ml graduations. Pack of 10
- G3129** Beakers 250 ml, 50 ml graduations. Pack of 10
- G3130** Beakers 500 ml, 50 ml graduations. Pack of 10

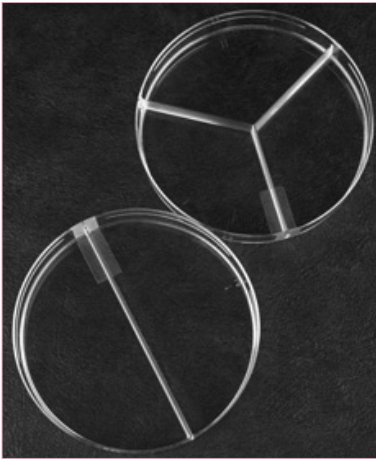


Disposable polypropylene containers

Shatter-proof, stackable polypropylene containers, ideal for sampling applications. Graduated conical profile available in two sizes.

- G3528** Polypropylene containers, 200 ml, non-sterile. Pack of 50
- G3528C** PE caps for 200 ml containers. Pack of 50
- G3529** Polypropylene containers, 400 ml, non-sterile. Pack of 50
- G3529C** PE caps for 400 ml containers. Pack of 50

Compartmented Petri dishes



These Petri dishes originally designed for segregating different culture media are very useful for keeping small quantities of samples and specimens. They are CE marked, sterile and manufactured under cleanroom conditions (ISO 14644, class 7) to exclude microbiological contamination. The dishes are available with two or three compartments. Supplied in sterile packs.

- G3948-2** Petri dishes, two-compartment, 90 mm dia. Pack of 20
- G3948-3** Petri dishes, three-compartment, 90 mm dia. Pack of 20

Sterile disposable Petri dishes



Clear plastic Petri dishes with lids, 90 x 15 mm.

- G3650** Plastic Petri dishes (sterile). Pack of 500
- G3650A** Plastic Petri dishes (sterile). Pack of 10

Glass Petri dishes



Glass Petri dishes with lids, available in borosilicate or Pyrex® glass.

Available individually.

- G3903** Petri dish, borosilicate, 55 mm dia
- G3904** Petri dish, borosilicate, 74 mm dia
- G3905** Petri dish, borosilicate, 94 mm dia
- G3906** Petri dish, Pyrex, 55 mm dia
- G3907** Petri dish, Pyrex, 74 mm dia
- G3908** Petri dish, Pyrex, 94 mm dia

Thermometer

A general purpose, reinforced mercury thermometer which can be used as a stirring rod. It is 300 mm in length, and is calibrated from -10 to +110 °C with 1 °C graduations.

- P976** General purpose thermometer

White tile



Easy to clean white tile, providing good background contrast for specimen manipulation.

- G256** White tile, 150 x 150 mm

Electronic timer – count down/count up

A six digit quartz timer with audible alarm, offering count down, count up and clock modes. The timer can be programmed for count down intervals of up to 24 hours, and includes count down memory recall, a pocket clip/stand and a magnetic mount.

G3680 Count down/count up timer



Warning labels

A range of self adhesive peel off labels. Words and symbols are in black on an orange background. Available in reels of 500 labels, each 25 x 25 mm.

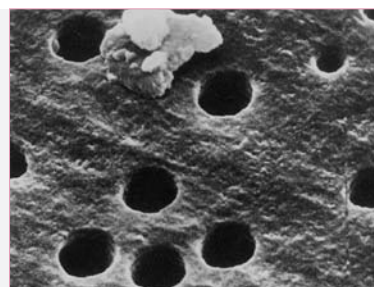
G3672 Labels: Toxic
G3673 Labels: Corrosive
G3674 Labels: Harmful
G3675 Labels: Irritant

G3676 Labels: Highly flammable
G3677 Labels: Explosive
G3678 Labels: Oxidising



Nuclepore™ filters

A range of high quality, polycarbonate membrane filters with a very smooth, flat surface and uniform pore size. The membranes are manufactured using a patented irradiation etching process, which allows specified pore sizes to be produced with great precision. The membranes have good mechanical strength with chemical and thermal stability. They are suitable for microfiltration, and for direct observation of cells, viruses, organelles, particles and fibres by both light and electron microscopy. The filters are 6 - 10 µm thick, with diameters of 13, 25 or 47 mm. There are 16 pore sizes available, ranging from 15 nm to 12 µm. Supplied in packs of 100.



Diameter (mm)	Pore size (µm)							
	12.0	10.0	8.0	5.0	3.0	2.0	1.0	0.8
13	-	G3802	G3803	G3804	G3805	-	G3807	G3808
25	G3821	G3822	G3823	G3824	G3825	G3826	G3827	G3828
47	G3841	G3842	G3843	G3844	G3845	G3846	G3847	G3848

Diameter (mm)	Pore size (µm)							
	0.6	0.4	0.2	0.1	0.08	0.05	0.03	0.015
13	-	G3810	G3811	G3812	-	-	-	G3816
25	G3829	G3830	G3831	G3832	G3833	G3834	G3835	G3836
47	G3849	G3850	G3851	G3852	G3853	G3854	-	G3856

Filter holders

Pop-Top™ and Swin-Lok™ plastic filter holders are designed for microfiltration and ultracleaning of small volumes of liquids.

G3630 13 mm Pop-Tops. Pack of 10
G3631 25 mm Swin-Loks. Pack of 10
G3633 47 mm Swin-Loks. Pack of 10

Millipore® filters, holders and syringes



Millipore membrane filters are composed of biologically inert mixtures of cellulose acetate and cellulose nitrate. Available in a range of pore sizes.

- G3332** Millipore filters 0.45 µm pore size, 13 mm dia*. Pack of 100
- G3333** Millipore filters 0.22 µm pore size, 13 mm dia*. Pack of 100
- G3920** Millipore filters 0.45 µm pore size, 25 mm dia*. Pack of 100
- G3921** Millipore filters 0.22 µm pore size, 25 mm dia*. Pack of 100

Swinnex® filter holders are used for cleaning or sterilising small volumes of liquids dispensed by syringe. They are made from polypropylene with a silicone gasket, and are available for 13 and 25 mm diameter filters.

- G3919** Swinnex holder, 13 mm dia
- G3338** Swinnex holder, 25 mm dia

A stainless steel holder is also available for 13 mm filters. A wrench set is supplied for tightening the holder.

- G3331** Stainless steel holder for 13 mm filters

Syringes for Millipore filters, 20 ml capacity

- G3330** Syringes for Millipore filters. Pack of 12
- G3334** Millipore cement. 20 ml

*Other diameters and pore sizes are available on request.

Hot Vac mini vacuum desiccator



An inexpensive, miniature vacuum desiccator to warm embedding plastics while removing gas bubbles. The aluminium base is placed on a laboratory heating plate. The vacuum can be drawn through a porthole in the base plate. Suitable for use up to 120 °C, with a digital thermometer to measure plate temperature. Internal dimensions: 153 x 76 mm.

- G3519** Hot Vac mini vacuum desiccator

Desiccator cabinet



Stackable desiccator cabinet made from clear polystyrene, ideal for storing cleaned EM components, spare stages and prepared specimens. The door has roller latch closures on each side, sealed by a foam rubber gasket.

Internal dimensions: 210 x 180 x 130 mm.

- G3518** Desiccator cabinet

Polypropylene desiccator

Polypropylene desiccator with transparent polycarbonate cover. The grooved stopper ensures air is re-admitted very slowly, to avoid disturbing the contents. It is implosion proof, and will withstand a vacuum of 740 mm Hg with loss no greater than 20 mm in 24 hours. The drying agent is held in a removable pan.

External dimensions: 170 mm diameter x 190 mm high.

G3568 Polypropylene desiccator

Desiccator cartridges

Convenient and easy to handle desiccant cartridges that fit into the bottom of standard glass or plastic desiccators. Saturated gel can be regenerated at 150 °C in vented ovens for three hours.

G3617 Cartridges for 60 mm desiccator, 114 mm dia, 230 g

G3618 Cartridges for 200 mm desiccator, 197 mm dia, 680 g

G3619 Cartridges for 250 mm desiccator, 238 mm dia, 1360 g



Desiccant cartridges, disposable

Disposable desiccant cartridges for use in desiccator cabinets, non-vacuum desiccators, analytical balance cases and precision laboratory instruments. The clear polystyrene dish allows instant visual inspection of the silica gel. It can easily be regenerated by heating cartridges at 50 °C overnight. For more rapid drying the membrane can be cut, spent silica gel put into a glass or porcelain dish and placed in an oven at 150 °C for an hour. Cartridges are individually sealed in aluminium foil and can be disposed of after repeated use.

G3613 Disposable desiccant cartridges, 65 mm dia. Pack of 6

G3614 Disposable desiccant cartridges, 100 mm dia. Pack of 6

Desiccant canister, Desi-Can™

Desiccant canister, ideal for desiccator cabinets, making trays of loose desiccant obsolete. It has unlimited life as it can be regenerated at 150 °C in an oven for approximately three hours.

Dimensions: 102 x 51 x 12.5 mm.

G3616 Desi-Can



DRICAP® capsule dehydrators

DRICAP capsules are highly suited to use in SEM specimen containers, as they contain more desiccant in less space, offering more drying power. The moisture permeable cartridge shell is manufactured from clear cellulose acetate and the desiccant is activated SiO₂.

Type 11, desiccant weight 0.97 g, size 8 x 22 mm

Type 14, desiccant weight 1.85 g, size 8 x 40 mm


G3569-1 DRICAP capsule dehydrators, type 11. Pack of 100


G3569-2 DRICAP capsule dehydrators, type 14. Pack of 100





3M™ Humidity indicator cards

HUMIDITY INDICATOR
51015HIC125

**BAKE UNITS
IF PINK** 

**BAKE UNITS
IF PINK** 

**CHANGE
DESICCANT
IF PINK** 

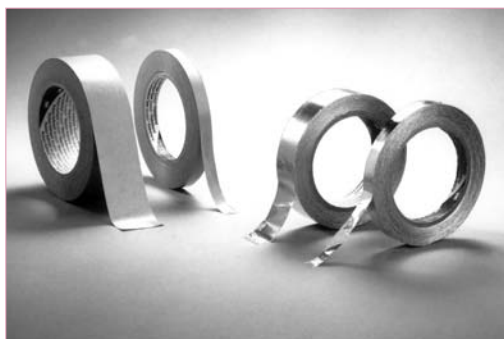
Discard if Circles Overrun
Avoid Metal Contact 

SCC Sanford, NC USA

Disposable humidity indicator cards, printed with moisture sensitive spots which respond to various levels of humidity with colour change from blue to pink.

- G3715** Humidity cards, size 51 x 76 mm. Can of 125
Indicates 5, 10, 60 % RH.
- G3715A** Humidity cards, size 51 x 76 mm. Can of 125
Indicates 5, 10, 15 % RH.
- G3715B** Humidity cards, size 51 x 76 mm. Can of 125
Indicates 30, 40, 50 % RH.
- G3715C** Humidity cards, size 51 x 76 mm. Can of 100
Indicates 10, 20, 30, 40 % RH.
- G3715D** Humidity cards, size 40 x 121 mm. Can of 200
Indicates 10, 20, 30, 40, 50, 60 % RH.

Tapes



Aluminium tape

- G265E** Aluminium tape with adhesive backing, 6 mm x 55 m
- G265** Aluminium tape with adhesive backing, 12 mm x 55 m
- G265A** Aluminium tape with adhesive backing, 25 mm x 55 m
- G265B** Aluminium tape with adhesive backing, 38 mm x 55 m
- G265C** Aluminium tape with adhesive backing, 50 mm x 55 m
- G265D** Aluminium tape with adhesive backing, 75 mm x 55 m

Double sided sticky tape

Double sided adhesive tape for attaching specimens to stubs.

- G263** Double sided tape, 12 mm x 55 m
- G264** Double sided tape, 38 mm x 55 m

Heavy duty double sided sticky tape

A general purpose double sided adhesive tape, available in two widths.

- G3914** Heavy duty, double sided adhesive tape, 12 mm x 33 m
- G3915** Heavy duty, double sided adhesive tape, 25 mm x 33 m

Tapes

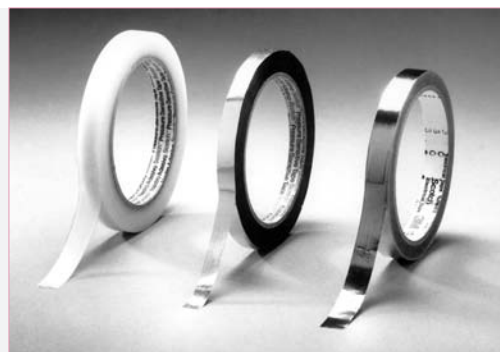
Magic tape

Matt adhesive tape which becomes transparent when affixed. The tape can be written on, making it useful for making up small labels. It is resistant to attack by insects which destroy conventional paper and Sellotape® labels.

G3329 Magic tape, 12 mm x 66 m

Copper tape

G253 Copper tape, 12.5 mm x 16 m



Heavy duty dispenser for tape

Weighted dispenser, suitable for tapes with an internal reel dimension of 75 mm.

G279 Heavy duty tape dispenser



Permabond® adhesive

Permabond is a general purpose, very rapid curing cyanoacrylate adhesive. It will bond most materials except polyethylene, polypropylene, PTFE and very porous materials. Store at 5 - 7 °C.

G315 Permabond adhesive. Box of 5 x 5 g tubes



Portable magnetic stirrer



This portable stirrer is powered by long life batteries or mains power. It is ideal for use in incubators, glove boxes or in the field. Housed in a tough, chemically resistant ABS case, it is supplied complete with batteries and a 25 mm PTFE coated magnetic follower. It has variable speeds up to 1300 rpm with a stirring capacity of 1.5 litres.

Overall dimensions: 150 x 160 x 70 mm.

- G3799** Portable magnetic stirrer
- G3799A-UK** 9 V mains adapter, 230 V AC, UK plug
- G3799A-EU** 9 V mains adapter, 230 V AC, European two pin plug

Compact magnetic stirrer



This compact magnetic stirrer has a clamp to accept a retort rod up to 16 mm in diameter. It has variable speed control up to 1300 rpm, with separate tuning controls for slow speed settings. It will stir volumes up to 1.5 litres and is supplied with one 25 mm long PTFE coated magnetic follower.

Overall dimensions: 90 x 160 x 90 mm.

- G3771** Compact magnetic stirrer, 240 V
- G3772** Accessory retort rod, 12.5 x 300 mm

Magnetic stirrers



A range of magnetic stirrers, with a choice of robust stainless steel or chemically resistant ceramic tops. The chemical properties of the glass ceramic top make it easy to clean and the white surface ensures good visibility of colour changes, eg. during titration. They have a spill proof design to deflect spills away from the controls and the user. Powerful magnets and motors give a stirring speed up to 1500 rpm, for volumes up to 15 litres. Supplied with a fitting for a retort rod and 2 x 25 mm PTFE coated magnetic followers.

- G3784** Magnetic stirrer with stainless steel top plate, 160 x 160 mm, 230 V
- G3785** Magnetic stirrer with ceramic top plate, 160 x 160 mm, 230 V

Magnetic stirrer/hotplates

A range of magnetic stirrer/hotplates with a choice of robust aluminium/silicon alloy or chemically resistant, easy to clean ceramic tops. There is a hot warning light which flashes when the plate temperature reaches 50 °C. The aluminium alloy hotplate has excellent thermal conductivity with rapid heating and even plate temperatures up to 300 °C. The unique properties of the ceramic top plate allow temperatures up to 450 °C while the edges stay cool. Both models incorporate a microprocessor temperature controller which ensures accurate setting and control of the temperature. Powerful magnets and motors give a stirring speed up to 1500 rpm, for volumes up to 15 litres.

Supplied with fittings for retort stands and 2 x 25 mm PTFE coated magnetic followers.

- G3786** Magnetic stirrer/hotplate, aluminium top plate, 160 x 160 mm, 230 V, 700 W
G3787 Magnetic stirrer/hotplate, ceramic top plate, 160 x 160 mm, 230 V, 500 W



Digital magnetic stirrer/hotplates

Digital magnetic stirrer/hotplates, with a choice of robust aluminium/silicon alloy or chemically resistant ceramic tops. These come complete with a detachable PTFE coated probe which can control the liquid temperature to within ± 0.5 °C. Both set and actual temperatures are displayed simultaneously. Powerful magnets and motors give a stirring speed up to 1300 rpm, for volumes up to 15 litres. Supplied with a fitting for a retort stand and 2 x 25 mm magnetic followers.

- G3797** Digital magnetic stirrer/hotplate, aluminium plate, 160 x 160 mm, 230 V, 700 W
G3798 Digital magnetic stirrer/hotplate, ceramic plate, 160 x 160 mm, 230 V, 500 W



Magnetic followers and retrievers

A range of magnetic followers is available, coated in chemically resistant PTFE with a maximum working temperature of 300 °C.

- G3778** Magnetic followers, 12 mm long. Pack of 3
G3779 Magnetic followers, 20 mm long. Pack of 3
G3780 Magnetic followers, 25 mm long. Pack of 3
G3781 Magnetic followers, 40 mm long. Pack of 3

Two magnetic retrievers are available, in either polypropylene or PTFE.

- G3782** Magnetic retriever, polypropylene, 10 mm dia x 350 mm
G3783 Magnetic retriever, PTFE, 8 mm dia x 350 mm