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# Focus on Glassware & Plasticware

## Your essential guide to everyday labware




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**This application brochure is dedicated to providing you with a comprehensive overview of our extensive Fisherbrand portfolio of glassware and plasticware as well as highlighting supplementary products from the wider Fisherbrand family. It features beakers, bottles, cylinders, flasks, jars, funnels, microplates, pipettes, tubes, microscope slides and vials; in fact everyday essential items for all types of laboratories. It also contains useful product resources such as FAQ's and compatibility charts, making it a handy companion to keep by your side in the lab.**



## Frequently asked questions (FAQ's)

This brochure features some of the most frequently asked questions about our glassware and plasticware range as received by our Product Support Advisors, together with the answers they provided. However, if you are unable to find the answer to your question, are stuck and need help or are simply confused and unsure of which product best suits your research needs, the Product Support Team are here and ready to respond to your enquiries.










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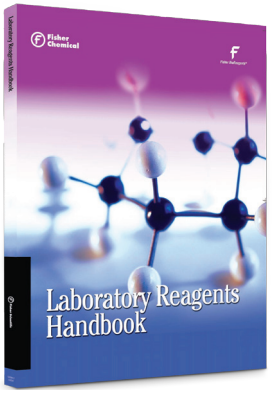
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## GENERAL INTRODUCTION TO GLASSWARE

Glass is a mixture of silica (silicon dioxide), the primary constituent of sand, and other minerals that are melted together at very high temperatures (approximately 1,700°C) to form a material that is relatively inert, transparent, heat resistant, recyclable and easy to fabricate into a variety of shapes and forms. Therefore, in addition to its familiar applications around the home, in industry and in construction, the unique properties of glass also make it invaluable as a material for a wide range of laboratory apparatus and equipment.

The chemical composition of glass can be adjusted, or other materials added, to produce different physical properties or colours. An example would be amber coloured glass bottles and vials which are used for the storage and transport of light sensitive products, as they offer significant protection against bright and ultraviolet light.

Safety coated glass, which combines the chemical and heat resistance of glass with the addition of a tough plastic coating, is also available. Typically, glass bottles or other vessels are dipped in clear plastisol, a solution of PVC resin in a liquid plasticiser, that solidifies to form an exterior seal that is particularly effective in not only containing glass fragments and potentially hazardous bottle contents in case of breakage, but also contributes to general strength, impact, thermal shock and slip resistance.

Glass containers can also be pre-cleaned to various levels and to recognised specifications and standards. This is particularly important in any application involving sensitive sample collection and analysis, for example during environmental monitoring or during chemical or pharmaceutical testing, where results could easily be skewed by contaminants coming from the glassware.

The Fisherbrand range of laboratory glassware featured in this brochure includes beakers, bottles, burettes, cuvettes, cylinders, flasks, funnels, homogenisers, microscope slides and coverslips, pipettes, tubes and vials. All these products are manufactured to the highest standards and undergo rigorous quality assurance and testing procedures to ensure that they deliver on our promise of quality, reliability and value.



# TYPES OF GLASS

This section will provide you with an overview of the three main types of Fisherbrand glassware; namely borosilicate, soda lime and quartz glass. If, however, you have any further questions concerning the best type of glass for your particular application, then please contact our Product Support Advisors.

## Borosilicate glass

Borosilicate glass (or sodium borosilicate glass) is by far the most widely used, and preferred, glass for most laboratory apparatus. It is made mainly of silica (70 to 80%) and boric oxide (7 to 13%) with the addition of smaller amounts of the alkalis (sodium and potassium oxides) and aluminium oxide (refer to Table 1 below). It also has a unique set of physical properties (refer to Table 2).

**Table 1: Typical Chemical Composition of Borosilicate Glass (% by weight)**

| Component | Percentage (approx.) |
|---|---|
| $SiO_2$ | 80.6% |
| $B_2O_3$ | 13.0% |
| $Na_2O + K_2O$ | 4.0% |
| $Al_2O_3$ | 2.3% |
| Miscellaneous traces | 0.1% |

**Table 2: Physical Properties of Borosilicate Glass**

| | |
|---|---|
| **Coefficient of expansion (20 to 300°C)** | 3.3 x $10^{-6}$/°C |
| **Density** | 2.23g/$cm^3$ |
| **Refractive index (Sodium D line)** | 1.474 |
| **Dielectric constant (1MHz, 20°C)** | 4.6 |
| **Specific heat (20°C)** | 750J/kg°C |
| **Thermal conductivity (20°C)** | 1.14W/m°C |
| **Poissons Ratio (25 to 400°C)** | 0.2 |

The main distinction between borosilicate glass from the older, more traditional 'soda lime' glass is the substitution of boric oxide for soda and for lime in the manufacturing process. Borosilicate glass must contain at least five percent boric oxide, which helps bind the silicate and aluminium oxide and sodium oxide. Higher temperatures are required during the manufacturing process of borosilicate glass compared to regular glass, making it more expensive to produce.

Its different composition means that borosilicate glass has a higher heat resistance and does not expand like ordinary glass; it has a smooth transition between temperatures and can even withstand temperature gradients across its surfaces. Tolerating both extreme heat and cold in this way makes borosilicate glass very popular for laboratory glassware.

These temperature characteristics are due primarily to its lower thermal expansion coefficient (refer to Table 2), which is responsible for its exceptional performance especially at high temperatures. Furthermore, due to its low coefficient of expansion, which is about one-third that of ordinary soda lime glass, it can be manufactured with thick and heavy walls for extra mechanical strength, without compromising its heat-resistant properties.

Although all glass is generally chemical resistant, borosilicate glass, due to its high percentage weight of silica (over 80%), offers exceptional acid resistance and is also capable of coping with, and containing extremely volatile chemicals.

Finally, borosilicate glass is far more durable than traditional glass, and can withstand accidents and other mishaps that would readily break other glassware. Even when it does crack, it rarely completely shatters, making it generally easier and safer to clean up.

All of these properties make borosilicate glass perfect for scientific laboratory use. Everything from tubes, bottles, beakers, test tubes, cylinders, flasks, pipettes, vials and funnels are produced from borosilicate, and are widely used across the chemical industry, in the pharmaceutical sector and in general or specialist research laboratories everywhere.

## Soda lime glass

Soda lime glass (or soda lime silica glass) still accounts for the majority of industrially manufactured glass. It is typically composed of 74% silicon dioxide ($SiO_2$), 13% sodium oxide ($Na_2O$) and 7% calcium oxide, also called lime (CaO), with smaller amounts of other compounds (refer to Table 3 below).

**Table 3: Typical Chemical Composition of Soda Lime Glass (% by weight)**

| Component | Percentage (approx.) |
|---|---|
| $SiO_2$ | 74% |
| $Na_2O$ | 13% |
| CaO | 7% |
| MgO | 4% |
| $Al_2O_3$ | 2% |

**Table 4: Physical Properties of Soda Lime Glass**

| | |
|---|---|
| **Coefficient of expansion (20 to 300°C)** | 8.6 x $10^{-6}$/°C |
| **Density** | 2.52g/$cm^3$ |
| **Refractive index (Sodium D line)** | 1.515 |
| **Dielectric constant (1MHz, 20°C)** | 7.3 |
| **Specific heat (20°C)** | 750J/kg°C |
| **Thermal conductivity (20°C)** | 0.96W/m°C |
| **Poissons Ratio (25 to 400°C)** | 0.24 |

Soda lime glass is divided technically into two different types; flat glass, which is used for primarily construction purposes, such as windows, shelving etc., and container glass which is used for bottles, jars and other vessels. Container glass is similar in composition to flat glass except that it contains a lower proportion of magnesium oxide and sodium oxide. The lower content of these highly water-soluble ions reduces their leaching during long term storage of aqueous solutions, which may be an important requirement to be taken into consideration for the storage of particular liquids. These two types of soda lime glass also differ in their production method; float process for windows and blowing and pressing for containers.

In contrast to borosilicate glass, soda lime glass has a higher coefficient of thermal expansion (refer to Table 4). It will undergo sizeable expansion upon heating and contraction upon cooling meaning that it is much more sensitive to temperature fluctuations. As such soda lime glass is not used in the laboratory for applications involving severe changes in temperature.

Soda lime glass is relatively inexpensive, chemically stable, reasonably hard, and extremely workable. Because it is capable of being re-softened and re-melted numerous times, it is ideal for glass recycling. In addition soda lime glass has a smooth non-porous surface which allows bottles and jars to be easily cleaned.

## Quartz glass

Quartz glass (or fused quartz) is comprised of just pure silica, and as such it does not contain the other ingredients which are typically added to the other forms of glass to lower the melt temperature. A number of unique optical, mechanical and thermal properties have made fused quartz an indispensable material in the fabrication of a disparate range of high-tech products from lenses and other optical components to cuvettes and crucibles.

Quartz glass has a very low thermal expansion coefficient, making it extremely thermal shock resistant (refer to Table 5). It is also chemically inert up to moderate temperatures (except to hydrofluoric acid, which dissolves silica) and has a very high viscosity which permits the glass to be formed, cooled and annealed without crystallising.

**Table 5: Physical Properties of Quartz Glass**

| | |
|---|---|
| **Coefficient of expansion (20 to 320°C)** | 5.5 x $10^{-7}$/°C |
| **Density** | 2.2g/$cm^3$ |
| **Refractive index (Sodium D line)** | 1.4585 |
| **Dielectric constant (1MHz, 20°C)** | 3.75 |
| **Specific heat (20°C)** | 670J/kg°C |
| **Thermal conductivity (25°C)** | 1.4W/m°C |
| **Poissons Ratio (25 to 400°C)** | 0.17 |

Fused quartz has high homogeneity and good transmission in the ultraviolet, visible and infrared spectral regions. Depending on transmission range, there are UV and IR fused quartz grades. The UV grade is sold under various tradenames such as HPFS, Spectrosil and Suprasil. It has a very low metallic impurity content making it useful for deep UV optical applications (0.18 to 2.0µm), although its infrared transmission is limited by strong water absorptions at 2.2µm and 2.7µm. IR grade is sold under tradenames including Infrasil and Vitreosil IR. It has a greater presence of metallic impurities, limiting its UV transmittance wavelength to around 250nm, but a much lower water content, leading to excellent infrared transmission up to 3.6µm wavelength. These transmission properties make fused quartz particularly suitable for the manufacture of spectrophotometric cuvettes and other sample holders.

## GENERAL INTRODUCTION TO PLASTICWARE

The term 'plastic' is derived from the Greek root ''plastikos'' meaning fit for moulding. It acknowledges the material's malleability, or plasticity during manufacture, that allows it to be cast, pressed, or extruded into a variety of shapes. Due to their relatively low cost, ease of manufacture, versatility, and imperviousness to water, plastics are used in almost every application and industry.

Plastics are organic polymers, built from carbon-based monomers which may also incorporate other molecular components or functional groups containing oxygen, sulphur or nitrogen, all of which may dramatically alter the physico-chemical properties of the material overall.

Typically, plastics may also contain organic or inorganic additives which are blended in during the manufacturing process. Additives may include plasticisers, the largest group, which improve the plasticity or fluidity of the product; fillers, which are added to improve performance and/or reduce production costs, such as zinc oxide, chalk, wood flour, cellulose or starch; and dyes or pigments to colour the final product.

Plastics can be classified in several ways. We can classify them chemically based purely on their polymeric structure, such as the acrylics, polyesters, silicones, polyurethanes, and halogenated plastics. Alternatively, they can classified according to the chemical process used in their manufacture, for example, condensation, polyaddition or cross-linked, or else based on their thermal properties, i.e. thermoplastics, which soften on heating and then harden again on cooling, or thermosets, which never re-soften after their initial moulding. Plastics may also be categorised by other physical properties such as density, tensile strength, glass transition temperature, or resistance to various chemical products.



# TYPES OF PLASTICS

This section will provide you with an overview of the principal types of Fisherbrand plasticware. If, however, you have any further questions concerning the best type of plastic for your particular application, then please contact our Product Support Advisors.



## Polypropylene (PP)

- Translucent to transparent
- Fairly rigid
- Temperature range 0 to 135°C
- Autoclavable at 121°C
- Resistant to most chemicals except strong oxidisers
- Resistant to fatigue making it tough and durable
- Typically used for beakers, bottles, funnels and cylinders



## Polyethylene (PE)

Available in both high and low density forms:

- High-density polyethylene (HDPE)
  - Transparent to opaque
  - Fairly rigid
  - Temperature range -100°C to 120°C
  - Not autoclavable at 121°C
  - Good to excellent chemical resistant
  - High tensile strength making it very tough
  - Typically used for bottles
- Low-density polyethylene (LDPE)
  - Translucent
  - Flexible
  - Temperature range -50°C to 80°C
  - Not autoclavable at 121°C
  - Resistant to most chemicals except strong oxidisers
  - Robust and virtually unbreakable
  - Typically used for wash bottles

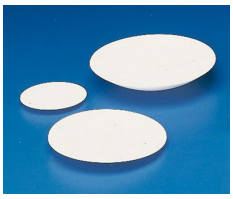


## Polyethylene terephthalate (PET, PETE)

- Transparent
- Rigid
- Temperature range -40°C to 150°C
- Not autoclavable at 121°C
- Good chemical resistance except to alkalis
- Very strong yet lightweight
- Typically used for bottles and face shields

## Glycol-modified polyethylene terephthalate (PETG)

- Copolymer of PET (refer to above)



## Polytetrafluoroethylene (PTFE)

- Opaque
- Semi-rigid
- Temperature range -200°C to 260°C
- Autoclavable at 121°C
- Excellent chemical resistance with almost all chemicals
- Low coefficient of friction
- Typically used for bottles, beakers and stirrers



## Polystyrene (PS)

- Transparent
- Rigid, plastic
- Temperature range 0 to 70°C
- Not autoclavable at 121°C
- Moderate chemical resistance (excellent compatibility with weak acids, alcohol and bases)
- High strength and impact resistance
- Typically used for ice buckets and scoops
- Has a low density and a high clarity
- Typically used for beakers, graduated cylinders, petri dishes and microplates



## • Polycarbonate (PC)

- Transparent
- Rigid
- Temperature range -135°C to 130°C
- Autoclavable at 121°C
- Moderate chemical resistance (excellent compatibility with weak acids)
- High strength
- Typically used for to make safety eyewear, face shields and cryogenic storage boxes



## • Polymethyl methacrylate (acrylic, PMMA)

- Transparent (very clear)
- Rigid
- Temperature range -60°C to 70°C
- Not autoclavable at 121°C
- Moderate chemical resistance (resistant to inorganic acids and alkalis but not to organic solvents)
- Very tough and high clarity
- Typically used for bench top and safety shields as well as a variety of storage boxes



## • Polymethylpentene (PMP or TPX)™

- Transparent
- Rigid
- Temperature range -180°C to 145°C
- Autoclavable at 121°C
- Highly resistant to chemicals
- Typically used for measuring cylinders and chromatography vials

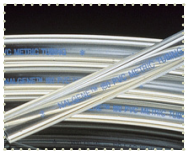
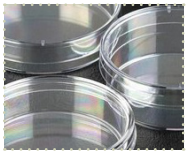


## • Polyvinyl chloride (PVC)

- Transparent
- Rigid
- Temperature range -25°C to 70°C
- Not autoclavable at 121ºC
- Moderate chemical resistance
- Rigid or flexible, coloured or clear
- Typically used for trays and troughs

The different types of plastics can be widely recycled into a variety of products. To aid with their segregation the Society of the Plastics Industry (SPI) has devised a classification system to identify the seven main types (refer to Table 6 below).

**Table 6: Resin Identification Codes for the Main Types of Plastics**

| | | |
|---|---|---|
| 1 PET |  | Polyethylene Terephthalate sometimes absorbs odours and other traces from the contents that are stored in them. Items made from this plastic are **commonly recycled**. |
| 2 HDPE |  | High-Density Polyethylene products are very safe and are not known to transmit any chemicals into their contents. HDPE products are **commonly recycled**. Items made from this plastic include containers for a wide variety of liquid products. It is NEVER safe to reuse an HDPE bottle as a food or drink container if it didn't originally contain food or drink. |
| 3 V |  | Polyvinyl Chloride is **sometimes recycled**. This kind of plastic should not come in contact with food items as it can be harmful if ingested. |
| 4 LDPE |  | Low-Density Polyethylene is **sometimes recycled**. It is a very versatile plastic that tends to be both durable and flexible. |
| 5 PP |  | Polypropylene is **occasionally recycled**. PP is strong and can usually withstand higher temperatures. It is used to make a wide variety of containers and other vessels. Plastic bottle caps are often made from PP. |
| 6 PS |  | Polystyrene is **commonly recycled**, but it is difficult to do so. |
| 7 OTHER |  | Code 7 is used to designate miscellaneous types of plastic not defined by the other six codes. Polycarbonate and polylactide are included in this category. These types of plastics are **difficult to recycle**. |

# CHEMICAL COMPATIBILITY

The chemical compatibility chart below is for reference purposes only. Many factors affect the chemical resistance of labware products and we would kindly remind you that it is your responsibility to do a test under your own conditions to ensure that the product you are using is fully compatible.

## How to Use This Chart

**Use This Chart as a General Guide Only.** Test each chemical before storing in labware. The first letter of each pair represents the resistance rating at 20°C; the second at 50°C.

**E — No damage** after 30 days of constant exposure.

**G — Little or no damage** after 30 days of constant exposure.

**F — Some effect** after 7 days of constant exposure. Depending on the material, the effect may be cracking, crazing, loss of strength or discolouration. Solvents may cause softening, swelling, and permeation losses with PP, PMP, LDPE and HDPE; the solvent effects on these materials are normally reversible.

**N — Not recommended** for continuous use. Immediate damage may occur. Depending on the material, the effect will be severe cracking, crazing, loss of strength, discolouration, deformation, dissolution or permeation loss.

## Effects of Chemicals on Labware

Chemicals may affect the weight, strength, colour, dimensions, flexibility and surface appearance of labware. The basic models of interaction that cause these changes are:
**(1)** chemical attack on the polymer chain, with resultant reduction in physical properties, including oxidation; reaction of functional groups in or on the chain; and depolymerization;
**(2)** physical change, including absorption of solvents, resulting in softening and swelling of the plastic; permeation of solvent through the plastic; or dissolution in a solvent; and
**(3)** stress-cracking from the interaction of a "stress-cracking agent" with molded-in or external stresses.

The reactive combination of compounds of two or more classes may cause a synergistic or undesirable chemical effect. Other factors affecting chemical resistance include: temperature, pressure, internal or external stresses (such as centrifugation), and length of exposure to and concentration of the chemical. As temperature increases, resistance to attack decreases.

### Warning!

**Do not store strong oxidising agents in plastic containers except those made of FEP, PFA or PTFE. Other plastics will become brittle after prolonged exposure.**

### Table 7: Chemical Compatibility Chart

| CHEMICAL | LDPE | HDPE | PP/PPCO | PMP | FEP/PTFE/PFA | ECTFE/ETFE | PC | PVC (Flexible) | PSF | PVDF | PS | NYL | Stainless Steel | Glass | Ceramic |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acetaldehyde | GN | GF | GN | GN | EE | GF | N | N | NN | EE | NN | EG | EE | EE | EE |
| Acetamide, sat. | EE | EE | EE | EE | EE | EE | NN | NN | NN | — | EE | EE | EE | EE | EE |
| Acetic acid, 5% | EE | EE | EE | EE | EE | EE | EG | G | EE | EE | EG | FN | EE | EE | EE |
| Acetic acid, 50% | GF | G | EE | EE | EE | EG | GF | FN | EE | EE | GG | NN | EE | EE | EE |
| Acetone | G | NN | NN | EE | EE | N | NN | NN | NN | NN | NN | EE | EE | EE | EE |
| Acetonitrile | EE | EE | FN | FN | EE | EE | NN | NN | NN | EE | NN | EE | EG | EE | EE |
| Acrylonitrile | EE | EE | FN | FN | EE | EG | NN | NN | NN | GF | NN | EG | EG | EE | EE |
| Adipic acid | EG | EE | EE | EE | EE | EE | EE | EG | GG | — | EE | EF | EG | EE | EE |
| Alanine | EE | EE | EE | EE | EE | EE | EE | EG | E | — | EE | EG | — | — | — |
| Allyl alcohol | EE | EE | EE | EG | EE | EE | G | N | GF | — | GF | NN | EE | EG | EG |
| Aluminum hydroxide | EG | EE | EG | EG | EE | EE | FN | EG | GG | EE | GG | EE | EE | NN | EE |
| Aluminum salts | EE | EE | EE | EE | EE | EE | EG | G | EE | EE | E | NN | GG | EE | EE |
| Amino acids | EE | EE | EE | EE | EE | EE | EE | G | EE | EE | EE | EG | — | — | — |
| Ammonia | EE | EE | EE | EE | EE | EE | NN | GF | GF | EE | EG | FF | EE | EE | EE |
| Ammonium acetate, sat. | EE | EE | EE | EE | EE | EE | GG | EE | EE | EE | EE | EG | EG | EE | EE |
| Ammonium glycolate | EG | EE | EG | EG | EE | EE | GF | GF | GG | EE | EE | GG | — | — | — |
| Ammonium hydroxide, 5% | EE | EE | EE | EE | EE | EE | FN | G | GG | EE | EF | GF | EE | EE | EE |
| Ammonium hydroxide, 30% | EG | EE | EG | EG | EE | EE | NN | GF | GG | EE | GF | FN | EE | EE | EE |
| Ammonium oxalate | EG | EE | EG | EG | EE | EE | EE | GN | EE | EE | EE | GF | EE | EE | EE |
| Ammonium salts | EE | EE | EE | EE | EE | EE | G | EG | EE | EE | GG | NN | EE | EE | EE |
| n-Amyl acetate | GF | EG | GF | GF | EE | EE | NN | NN | NN | EE | NN | EE | EE | EE | EG |
| Amyl chloride | NN | FN | NN | FF | EE | EE | NN | NN | NN | EE | NN | EG | EG | EE | EE |
| Aniline | EG | GF | GF | GF | EE | GN | NN | NN | NN | EF | NN | GF | EG | EE | EE |
| Benzaldehyde | EG | GN | EG | F | EE | EF | N | NN | FF | EE | NN | EG | GG | EE | EE |
| Benzene | N | NN | NN | N | EE | EG | NN | NN | NN | EE | NN | EE | GG | EE | EE |
| Benzoic acid, sat. | EE | EE | EG | EG | EE | EE | EG | EG | FF | EE | GG | NN | EG | EE | EE |
| Benzyl acetate | EG | EE | EG | EG | EE | EG | FN | NN | NN | — | NN | EG | GG | EE | EE |
| Benzyl alcohol | NN | FN | NN | GG | EE | EE | NN | FN | NN | EE | NN | NN | GG | EE | EE |
| Bromine | NN | FN | NN | NN | EE | EG | FN | N | NN | EE | NN | NN | EE | EG | GG |
| Bromobenzene | NN | N | NN | NN | EE | GN | NN | NN | NN | EE | NN | EG | GG | GG | GG |
| Bromoform | NN | NN | NN | NN | EE | GF | NN | NN | NN | EE | NN | FF | GG | EE | EE |
| Butadiene | NN | FN | NN | NN | EE | EE | NN | N | NN | EE | NN | FF | GG | EE | EE |
| n-Butyl acetate | GF | GF | FN | F | EE | EG | NN | NN | NN | EE | NN | EE | GG | EE | EE |
| n-Butyl alcohol | EE | EE | EE | EG | EE | EE | GF | GF | GF | EE | EG | NN | EE | EE | EE |
| sec-Butyl alcohol | EG | EE | EG | EG | EE | EE | GF | GG | GF | EE | GG | NN | EE | EE | EE |
| tert-Butyl alcohol | EG | EE | EG | EG | EE | EE | GF | FN | GF | GG | EE | NN | EE | EE | EE |
| Butyric acid | NN | FN | NN | NN | EE | EE | N | N | GG | EE | NN | FN | GG | EE | EE |
| Calcium hydroxide, conc. | EE | EE | EE | EE | EE | EE | NN | G | GG | EE | GG | NN | GG | NN | EE |
| Calcium hypochlorite, sat. | EE | EE | EE | EG | EE | EE | FN | FN | EE | EE | GF | NN | EE | EE | EE |
| Carbazole | EE | EE | EE | EE | EE | EE | NN | NN | NN | — | EE | EE | — | — | — |
| Carbon disulfide | NN | NN | NN | NN | EE | EF | NN | NN | NN | EE | NN | EG | EE | EE | EE |
| Carbon tetrachloride | FN | GF | GF | NN | EE | EE | NN | NN | NN | EE | NN | EE | GG | EE | EE |
| Cedarwood oil | NN | FN | NN | NN | EE | EG | GF | EG | FF | EE | F | EG | — | — | — |
| Cellosolve acetate | EG | EE | EG | EG | EE | EG | FN | N | NN | EG | NN | EE | GG | EE | EE |
| Chlorine, 10% in air | GN | EF | GN | GN | EE | EE | EG | G | NN | EE | NN | NN | FF | EE | EE |
| Chlorine, 10% (moist) | GN | GF | FN | N | EE | EE | GF | FN | NN | EE | NN | NN | FF | EE | EE |
| Chloroacetic acid | EE | EE | EG | EG | EE | EE | FN | FN | NN | E– | GN | NN | GG | EE | EE |
| p-Chloroacetophenone | EE | EE | EE | EE | EE | EE | G | NN | NN | — | NN | EG | — | — | — |
| Chloroform | FN | FN | NN | NN | EE | GF | NN | NN | NN | EE | NN | FF | EE | EE | EE |
| Chromic acid, 10% | EE | EE | EE | EE | EE | EE | GF | N | EG | EE | G | NN | GG | EE | EE |
| Chromic acid, 50% | EE | EE | GF | G | EE | EE | FN | GN | NN | EG | N | NN | FF | EE | NN |
| Cinnamon oil | NN | N | NN | NN | EE | EG | GF | NN | FF | — | NN | GF | EE | — | — |
| Citric acid, 10% | EE | EE | EE | EE | EE | EE | E | F | EE | EE | E | NN | GG | EE | EE |
| Cresol | NN | FN | GF | NN | EE | EG | NN | NN | NN | EE | NN | NN | EE | EE | EE |
| Cyclohexane | FN | FN | FN | NN | EE | EG | F | NN | NN | EE | NN | EE | EE | EE | EE |
| DeCalin | GF | EG | GF | FN | EE | EE | E- | NN | NN | — | NN | EE | — | — | — |
| o-Dichlorobenzene | FN | NN | FN | FN | EE | EF | NN | NN | NN | EE | NN | EG | GG | EE | EE |
| p-Dichlorobenzene | FN | NN | GF | GF | EE | EF | NN | NN | NN | EE | NN | EG | GG | EE | EE |
| Diethyl benzene | NN | FN | NN | NN | EE | EG | N | NN | NN | — | NN | EE | GG | EE | EE |
| Diethyl ether | NN | FN | NN | NN | EE | EG | NN | FN | NN | EG | NN | EE | GG | EE | EE |
| Diethyl ketone | NN | NN | GG | GF | EE | GF | NN | NN | NN | NN | NN | EE | GG | EE | EE |
| Diethyl malonate | EE | EE | EE | EG | EE | EE | FN | N | FF | EG | NN | EE | — | — | — |
| Diethylene glycol | EE | EE | EE | EE | EE | EE | GF | FN | GG | EE | E | EE | EE | EE | EE |
| Diethylene glycol ethyl ether | EE | EE | EE | EE | EE | EE | FN | FN | FF | — | NN | EE | EE | EE | EE |
| Dimethyl formamide | EE | EE | EE | EE | EE | GG | NN | N | NN | NN | NN | GF | EE | EE | EE |
| Dimethylsulfoxide | EE | EE | EE | EE | EE | EG | NN | NN | NN | — | EG | EE | EE | EE | EE |
| 1,4-Dioxane | GF | GG | GF | FN | EE | EF | NN | NN | NN | NN | NN | EF | GG | EE | EE |
| Dipropylene glycol | EE | EE | EE | EE | EE | EE | GF | FN | GG | — | EE | EE | — | — | — |
| Ether | NN | FN | NN | F | EE | EG | NN | N | NN | EG | NN | EE | EE | EE | EE |
| Ethyl acetate | EE | EE | GF | FN | EE | EE | NN | NN | NN | NN | NN | EE | GG | EE | EE |
| Ethyl alcohol (absolute) | EG | EE | EG | EG | EE | EE | EG | FN | EG | EE | EG | NN | EE | EE | EE |
| Ethyl alcohol, 40% | EG | EE | E | EG | EE | EE | E | GF | EG | EE | EG | NN | EE | EE | EE |
| Ethyl benzene | N | FN | N | N | EE | GF | NN | NN | NN | — | NN | EE | GG | — | — |
| Ethyl benzoate | FF | GG | GF | GF | EE | EG | NN | NN | NN | NN | NN | EE | — | — | — |
| Ethyl butyrate | GN | GF | GN | FN | EE | EG | NN | NN | NN | NN | NN | EE | EG | — | — |
| Ethyl chloride, liquid | FN | NN | FN | FN | EE | EE | NN | NN | NN | EE | NN | GF | EE | EE | EE |
| Ethyl cyanoacetate | EE | EE | EE | EE | EE | EE | FN | N | FF | NN | GN | GF | — | — | — |
| Ethyl lactate | EE | EE | EE | EE | EE | EE | FN | N | FF | NN | FN | EG | — | — | — |
| Ethylene chloride | N | NN | NN | NN | EE | N | NN | NN | NN | EE | NN | EG | GG | EE | EE |
| Ethylene glycol | G | EE | EE | EE | EE | EE | EG | FN | EE | EE | EE | EE | GG | EE | EE |
| Ethylene glycol methyl ether | G | EE | GF | EE | EE | EE | N | FN | NN | — | NN | EE | — | — | — |
| Ethylene oxide | FF | GF | FF | FN | EE | EE | FN | G | EE | EE | NN | EE | GG | EE | EE |
| Fluorides | EE | EE | EE | EE | EE | EE | EE | GF | EE | EE | GG | EE | — | — | — |
| Fluorine | FN | GN | FN | FN | EG | EF | GF | FN | NN | — | NN | NN | EG | EE | — |
| Formaldehyde, 10% | EE | EE | EE | E | EE | EE | E | GF | EE | EE | GG | GF | EE | EE | EE |

## Table 7: Chemical Compatibility Chart - continued

| CHEMICAL | LDPE | HDPE | PP/PPCO | PMP | FEP/PTFE/PFA | ECTFE/ETFE | PC | PVC (Flexible) | PSF | PVDF | PS | NYL | Stainless Steel | Glass | Ceramic |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Formaldehyde, 40% | EG | G | EG | E | EE | EE | E | FN | GF | EE | GG | GF | EE | EE | EE |
| Formic acid, 3% | EG | G | EG | EG | EE | EE | EG | GF | GG | EE | EG | NN | GG | EE | EE |
| Formic acid, 50% | G | EE | EG | E | EE | EE | GF | GF | F | EE | G | NN | GG | EE | EE |
| Formic acid, 98 to 100% | G | EE | EG | E | EE | EE | FN | N | G | EE | G | NN | GG | EE | EE |
| Freon™ TF | EG | EG | EG | FN | EE | EG | N | NN | GF | EE | FN | — | EE | EE | EE |
| Fuel oil | FN | GF | EG | GF | EE | EE | EG | GF | EG | EE | F | EE | EE | EE | EE |
| Gasoline | N | GC | NN | GF | EE | EE | N | N | FF | EE | NN | EE | EE | EE | EE |
| Glacial acetic acid | GN | GC | EG | G | EE | EE | NN | NN | EE | EG | F | NN | EG | EE | EE |
| Glycerine | EE | EE | EE | EE | EE | EE | FG | EE | EE | EE | EE | EE | EE | EE | EE |
| n-Heptane | N | F | FF | FF | EE | EE | NF | NN | EG | EE | NN | EE | EE | EE | EE |
| Hexane | NN | GF | FN | FN | EE | EE | FN | N | EG | EE | NN | EE | EE | EE | EE |
| Hydrochloric acid, 1 to 5% | EE | EE | EE | E | EE | EE | EE | G | EE | EE | EE | NN | NN | EE | EE |
| Hydrochloric acid, 20% | EE | EE | EE | EG | EE | EE | GF | GF | EE | EE | EE | NN | NN | EE | EE |
| Hydrochloric acid, 35% | EE | EE | EG | EG | EE | EE | F | FN | EE | EE | EE | NN | NN | EE | EE |
| Hydrofluoric acid, 4% | EG | EE | E | E | EE | EE | G | GF | GF | EE | GF | NN | NN | NN | — |
| Hydrofluoric acid, 48% | EE | EE | G | G | EE | EE | F | FN | FN | EE | NN | NN | NN | NN | NN |
| Hydrogen peroxide, 3% | EE | EE | EE | EE | EE | EE | EE | G | EE | EE | EG | NN | GG | EE | EG |
| Hydrogen peroxide, 30% | EG | EE | EG | EG | EE | EE | EE | GN | EE | EE | EG | NN | GG | EE | EG |
| Hydrogen peroxide, 90% | N | EE | EG | EG | EE | EE | EE | NN | EE | E- | EG | NN | GG | EE | EG |
| Isobutyl alcohol | EE | EE | EE | EG | EE | EE | EG | GN | EG | EE | GG | NN | EE | EE | EE |
| Isopropyl acetate | GF | EG | GF | GF | EE | EG | NN | NN | NN | — | NN | EE | GG | EE | EE |
| Isopropyl alcohol | EE | EE | EE | G | EE | EE | EE | GN | GF | EE | EG | NN | GG | EE | EE |
| Isopropyl benzene | FN | FN | FN | NN | EE | EG | NN | NN | NN | — | NN | EG | — | — | — |
| Kerosene | FN | FN | NN | GF | EE | GF | — | NN | GF | EE | NN | EE | EE | EE | EE |
| Lactic acid, 3% | EG | EE | E | EG | EE | EE | E | EG | EE | EG | EE | NN | GG | EE | EE |
| Lactic acid, 85% | G | EE | EG | EG | EE | EG | EG | GF | EE | GF | EE | NN | GG | EE | EE |
| Methoxyethyl oleate | EG | EE | EG | EG | EE | EE | FN | NN | NN | — | NN | EG | — | — | — |
| Methyl alcohol | G | EE | EE | G | EE | EE | GF | FN | EG | EE | GF | NN | EE | EE | EE |
| Methyl ethyl ketone | NN | NN | EG | NN | EE | GF | NN | NN | NN | NN | NN | EE | EE | EE | EE |
| Methyl isobutyl ketone | NN | NN | GF | FF | EE | GF | NN | NN | NN | GN | NN | EE | GG | EE | EE |
| Methyl propyl ketone | NN | FN | GF | FF | EE | EG | NN | NN | NN | NN | NN | EE | EE | — | — |
| Methylene chloride | N | FN | FN | FN | EE | GG | NN | NN | NN | NN | NN | GF | GG | EE | EE |
| Mineral oil | GN | EE | EE | EG | EE | EE | E | E | EE | EE | EE | EE | EE | EE | EE |
| Nitric acid, 1 to 10% | EE | EE | EE | EE | EE | EE | EG | F | FN | EE | GN | NN | EE | EE | EE |
| Nitric acid, 50% | F | F | FN | F | EE | EE | GF | FN | FN | EG | GF | NN | EG | EG | NN |
| Nitric acid, 70% | FN | N | NN | FN | EE | EE | G | N | NN | GF | NN | NN | GG | EE | NN |
| Nitrobenzene | NN | N | NN | F | EE | EG | NN | NN | NN | EN | NN | FF | GG | EE | EE |
| n-Octane | EE | EE | EE | EE | EE | EE | GF | N | GF | EE | NN | EE | EE | EE | EE |
| Orange oil | FN | GF | GF | FF | EE | EE | FF | N | FF | EE | NN | GF | EE | EE | EE |
| Ozone | GN | GN | EG | EE | EE | EE | NN | GF | EE | EE | FF | EG | EG | — | — |
| Perchloric acid | GN | GN | GN | GN | GF | EG | NN | N | NN | EE | GF | NN | FF | EE | EE |
| Perchloroethylene | NN | NN | NN | NN | EE | EE | NN | NN | NN | EE | NN | EE | EG | EE | EE |
| Phenol, crystals | F | GF | GN | FG | EE | EE | NN | FN | FF | EE | NN | NN | GG | EE | EE |
| Phosphoric acid, 1 to 5% | EE | EE | EE | EE | EE | EE | G | EE | EE | EE | GG | NN | NN | EE | EE |
| Phosphoric acid, 85% | N | EE | EG | EG | EE | EE | EG | F | EE | EE | EG | NN | NN | EE | EE |
| Pine oil | GN | FN | EG | GF | EE | EE | GF | N | FF | EE | NN | GF | EE | — | — |
| Potassium hydroxide, 1% | EE | EE | EE | EE | EE | EE | FN | EE | EE | EE | GG | FF | EG | GF | GF |
| Potassium hydroxide, conc. | EE | EE | EE | EE | EE | EE | F | EG | EE | EG | GF | FF | EG | NN | NN |
| Propane gas | NN | EE | NN | NN | EE | EE | FN | FN | FF | EE | NN | FF | GF | NN | NN |
| Propylene glycol | EE | EE | EE | EE | EE | EE | GF | GN | GG | — | EE | EE | GG | EE | EE |
| Propylene oxide | EG | EE | EG | EG | EE | FN | GF | FN | GG | FN | NN | EE | EE | — | — |
| Resorcinol, sat. | EE | EE | EE | EE | EE | EE | GF | N | NN | — | GF | NN | — | — | — |
| Resorcinol, 5% | EE | EE | EE | EE | EE | EF | GF | N | NN | — | GF | NN | — | — | — |
| Salicylaldehyde | EG | EE | EG | EG | EE | EN | GF | N | FF | EG | NN | EG | — | — | — |
| Salicylic acid, powder | EE | EE | EE | E | EE | EE | EG | GF | EE | EE | EE | EG | GG | EE | EE |
| Salicylic acid, sat. | EE | EE | EE | EE | EE | EE | EG | GF | EE | EE | EG | NN | GG | EE | EE |
| Salt solutions, metallic | EE | EE | EE | EE | EE | EE | EE | EE | EE | EE | GG | FF | EG | — | — |
| Silver acetate | EE | EE | EE | EE | EE | EE | EG | N | EE | EE | GG | EF | — | — | — |
| Silver nitrate | EG | EE | EG | EE | EE | EE | EE | EG | EE | EE | GF | NN | GG | EE | EE |
| Sodium acetate, sat. | EE | EE | EE | EE | EE | EE | EG | N | EE | EE | EE | FF | GG | EE | EE |
| Sodium hydroxide, 1% | EE | EE | EE | EE | EE | EE | F | EE | EE | EE | GG | EE | GG | GE | GE |
| Sodium hydroxide, 50% to sat. | GG | EE | EE | EE | EE | EE | F | NN | EG | EG | G | GF | GF | NN | NN |
| Sodium hypochlorite, 15% | F | G | N | EE | EE | EE | GF | FN | EE | EE | G | NN | NN | EE | EG |
| Stearic acid, crystals | EE | GG | EE | EE | EE | EE | EG | EG | GG | EE | EG | EF | EG | EE | EE |
| Sulfuric acid, 1 to 6% | EE | EE | EE | EE | EE | EE | EE | EG | EE | EE | EG | NN | FN | EE | EG |
| Sulfuric acid, 20% | EE | EE | EG | E | EE | EE | EG | F | EE | EE | EG | NN | NN | EE | GG |
| Sulfuric acid, 60% | EG | G | GF | EG | EE | EE | GF | FN | EE | EE | EG | NN | NN | EE | NN |
| Sulfuric acid, 98% | GG | FN | FN | GF | EE | EE | NN | N | G | EG | NN | NN | NN | EE | NN |
| Sulfur dioxide, liq., 46 psi | NN | FN | NN | NN | EE | EG | GN | N | GG | EE | NN | NN | FN | NN | NN |
| Sulfur dioxide, wet or dry | EE | EE | EE | EE | EE | EE | EG | GN | GG | GE | FN | NN | FN | EE | EE |
| Sulfur salts | FN | GF | FN | FN | EE | EG | FN | G | GG | GF | NN | NN | — | — | — |
| Tartaric acid | EE | EE | EE | EE | EE | EE | EG | EG | EE | EE | E | EF | FF | EE | EE |
| Tetrahydrofuran | FN | FN | GF | FF | EE | GF | NN | NN | NN | FN | NN | EE | EE | EE | EE |
| Thionyl chloride | NN | NN | NN | NN | EE | EE | NN | NN | NN | — | NN | NN | NN | EE | EE |
| Toluene | FN | NN | NN | FF | EE | EE | NN | NN | NN | EE | NN | EE | EE | EE | EE |
| Tributyl citrate | GF | EG | GF | GF | EE | EG | NN | N | FF | EF | NN | EG | — | — | — |
| Trichloroethane | NN | N | NN | NN | EG | NN | NN | NN | NN | — | NN | EE | GG | EE | EE |
| Trichloroethylene | NN | N | NN | NN | EE | EG | NN | NN | NN | EE | NN | EE | GG | EE | EE |
| Triethylene glycol | EE | EE | EE | EE | EE | EE | EG | GF | EE | — | EG | EE | — | — | — |
| Tripropylene glycol | EE | EE | EE | EE | EE | EE | EG | FN | EE | — | EE | EE | — | — | — |
| Turpentine | FN | FN | FN | NN | EE | EE | FN | FN | NN | EE | NN | EE | EE | EE | EE |
| Undecyl alcohol | EF | EG | EG | EG | EE | EG | GF | GF | FF | EE | GG | EE | — | — | — |
| Urea | EE | EE | EE | EG | EE | EE | GF | GN | FF | EE | EG | EE | GG | EE | EE |
| Vinylidene chloride | NN | FN | NN | NN | EE | GF | NN | NN | NN | EE | NN | NN | GG | — | — |
| Xylene | N | FN | FN | FN | EE | EG | NN | NN | NN | EE | NN | EE | GG | EE | EE |
| Zinc stearate | EE | EE | EE | EE | EE | EE | EE | GN | EE | EE | EE | EE | EE | EE | EE |



**Warning!**

**The plastic resin information in these tables (does not include SS, glass or ceramic) has been provided by Thermo Scientific* Nalgene* and is reprinted with their permission. It should be used ONLY as a guide for selecting labware for testing.**

**Test the labware for 72 hours under expected or proposed conditions of use, BEFORE putting into service. Test with care to avoid injury or property damage.**

**Fisher Scientific does not warrant (neither express nor implied) that the information in these tables is accurate or complete.**

# CARE AND MAINTENANCE

All Fisherbrand labware is manufactured to the highest standards and undergoes rigorous quality assurance and testing procedures to ensure that it provides you with a quality, reliable and affordable piece of laboratory equipment. This section provides guidelines on how to care and maintain labware to obtain maximum life and performance. If however, you have any further questions about the care and maintenance of your labware, then please contact our Product Support Advisors.

## Care and Maintenance of Glassware

### Safe handling and storage

- Inspect the glassware for chips, cracks, and scratches on the inside and outside. Do not use glassware with visible signs of damage
- Dispose of broken or defective glassware safely. Place in a rigid puncture resistant container e.g. sharps container
- Wear appropriate protective clothing, e.g. lab coats, gloves. When handling hot or cold glassware, always wear insulated gloves
- Lift or carry beakers, bottles, and flasks by the sides and base rather than by the neck or rim. The rims of beakers or necks of bottles and flasks might break if used as lifting points
- To avoid breakage while clamping glassware, use coated clamps to prevent glass to metal contact, and do not use excessive force to tighten clamps
- Protect glassware from the dust by plugging with cotton, corking, taping a heavy piece of paper over the mouth or placing the glassware in a dust free cabinet
- Store glassware in specially designed racks. Avoid breakage by keeping pieces separately

### Cleaning and drying

- Handle glassware carefully as most damage occurs during cleaning
- It is recommended that all glassware should be washed before it is first used to remove any residue or loose particles
- Glassware should be washed as soon as possible after use to avoid caking of residue. It is important not to let soiled glassware dry out. If immediate cleaning is not possible, the glassware should be put to soak in water. Use of a cleaning agent is recommended
- Glassware should not to be cleaned with harsh or abrasive cleaners. Use biodegradable, phosphate free detergent formulated for laboratory use
- Hard utensils, wire brushes or bottle brushes with wire cores, should not be used for cleaning. It is recommended that a sponge brush that is soft and flexible be used. Scratched glassware is prone to breakage during freezing or heating
- After washing, the glassware should be rinsed with tap water to remove any cleaning agent residue. After the tap water rinse, the glassware should be rinsed with distilled or deionized water
- When drying glassware, place articles on towels, lined basket, or slip-resistant pads. Be sure to place away from the edge of the bench. Large containers may be inverted on racks or pegboards to dry
- When cleaning pipettes, place pipettes, tips down, into a cylinder or tall jar of water or appropriate disinfectant (e.g. for biologically contaminated tips). A pad of cotton or glass wool at the bottom will help prevent breakage of the tips. Ensure the water or disinfectant level is high enough to immerse the pipettes

### Heating and cooling

- Do not heat glassware that is etched, cracked, nicked or scratched. Such defects reduce the thermal strength, making the glassware more prone to breakage
- Do heat vessels gently and gradually to avoid breakage by thermal shock. Similarly, allow hot glassware to cool gradually and in a location away from cold draughts.
- If you are using a hotplate, ensure that the top plate is larger than the base of the vessel to be heated. Also, never put cold glassware onto a hotplate which is already well heated. Warm up gradually from ambient temperature
- Adjust bunsen burners to get a large soft flame. It will heat slowly and more uniformly and use a wire gauze with ceramic centre to diffuse the flame
- Glassware with thick walls (e.g. bottles and jars) should never be heated over a direct flame. Additionally, do not heat glassware directly on electrical heating elements
- When autoclaving glass containers ensure that caps are loosened. Autoclaving with tightly screwed caps can result in pressure differences and consequent breakage

## Mixing and stirring

- Use a rubber policeman on glass or metal stirring rods, or use PTFE-tipped rods to prevent scratching the inside of the vessel
- When using a glass vessel with a magnetic stirrer always use a PTFE follower to prevent abrading the inside of the vessel
- When using glass or metal mechanical stirrer in a glass vessel always predetermine the height of the stirrer before use to ensure there is no contact between the stirrer blade and the bottom or sides of the vessel
- Do not mix sulphuric acid with water inside a glass measuring cylinder. The heat from the reaction can break the seal at the base of the cylinder

## Volumetric glassware

- It is important to ensure that all volumetric glassware is kept scrupulously clean and grease free. Dirt and grease can distort the shape of the meniscus and also cause droplets of liquid to adhere to the vessel walls. Both seriously impact accuracy
- Volumetric glassware should be held in a vertical position when reading the meniscus. The meniscus should be at eye level to avoid parallax errors
- Never pipette by mouth. Always use a purpose designed pipette filler such as Cat. No's 15209805, 15239805, 15229805, 15219805 and 15249805



Cat. No 15209805 (red), 15239805 (green), 15229805 (blue)



Cat. No 15219805



Cat. No 15249805

- Do not expose volumetric glassware to direct heat e.g.hotplates, bunsen flame
- Autoclaving at 121°C and cleaning in automatic dishwashers is acceptable and will not affect the accuracy of borosilicate volumetric glassware
- Recalibrate volumetric glassware after extensive or demanding usage to ensure continued accuracy

## Vacuum and pressure use

Because working conditions can vary enormously, Fisher Scientific cannot guarantee any glassware against breakage when used under vacuum or pressure. The application of positive pressures inside glass apparatus is particularly hazardous and should be avoided if at all possible. Safety precautions should always be taken to protect personnel and a number of these are listed below:

- Always wear safety glasses, goggles or a face shield
- Always use an adequate safety screen and/or protective cage
- Never use glassware that is scratched, cracked or chipped. It is more likely to break, especially under vacuum applications or if heated
- Avoid stress caused by over-tightening clamps. Support glassware gently where possible
- Never use flat bottomed vessels such as Erlenmeyer flasks and bottles under vacuum as they are likely to implode. Exceptions are vessels with specially thickened walls such as Büchner filter flasks and desiccators
- Never subject glassware to sudden pressure changes. Always apply and release pressure gradients and vacuums gradually

# Care and Maintenance of Plasticware

## Safe handling and storage

- Chemicals can adversely affect the performance of laboratory plasticware resulting in cracking, loss of strength and flexibility etc. For further information consult Table 7: Chemical Compatibility Chart, pages 14 to 15
- Dispose of broken or defective plasticware following local laws and regulations. The SPI code (refer to page 13) on the product will aid with segregation prior to recycling

## Cleaning and drying

- Most laboratory plasticware is readily cleaned in warm water with a detergent and soft cloth or sponge
- Avoid using abrasive cleaners or scouring pads which can result in surfaces becoming scratched and weakened
- A low or non-alkaline detergent is suitable for cleaning most plasticware. Note however that polystyrene and polycarbonate products are susceptible to attack by alkalis and a neutral detergent is recommended
- After cleaning, the products must be thoroughly rinsed with tap water to make sure no detergents remain. Then rinsed with distilled water and left to dry
- To prevent leakage, periodically disassemble and clean spigots and threads on bottles and closures, this will remove excess salts that build up
- If using an automatic laboratory washing machine to wash plastic volumetric ware, such as measuring cylinders, employ a wash temperature below 60°C. High temperatures can affect volumetric accuracy
- Ultrasonic baths may be used for cleaning plasticware as long as the products do not directly touch the transducer membrane

## Heating

- Never place plasticware in direct contact with a flame or place onto a hotplate surface
- Most plastics allow the transmission of microwaves. However, as with any microwave vessel, be sure it holds a microwave absorbing material, such as water, before placing in the oven

## Sterilisation

- Always pre check, prior to autoclaving, that the type of plastic can withstand repeated exposure to temperatures of 121°C (refer to Table 8 below, though please note that since there are many grades of plastics and processing methods the information should be treated as a general guide only)
- When autoclaving bottles always ensure the caps are loosened. Autoclaving with tightly screwed caps can result in collapse or deformation
- Throughout this brochure the following icon **A** is used to provide a quick guide as to whether the product can be autoclaved at 121°C for 20mins

**Table 8: Sterilisation Properties of Plastics**

| Type of plastic | Autoclavable* | Gas sterilisation (Ethylene oxide) | Dry heat sterilisation | Gamma radiation sterilisation |
|---|---|---|---|---|
| **PP** | Yes | Yes | No | No |
| **HDPE** | No | Yes | No | Yes |
| **LDPE** | No | Yes | No | Yes |
| **PET** | No | Yes | No | Yes |
| **PTFE** | Yes | Yes | Yes | Yes |
| **PS** | No | Yes | No | Yes |
| **PC** | Yes*** | Yes | No | Yes |
| **PMMA** | No | No | No | Yes |
| **PMP or TPX™** | Yes | Yes | Yes | No |
| **PVC** | Yes | ** | ** | ** |

*Autoclavable at 121°C for a period of 20mins
**depends on grade
*** Autoclaving PC reduces mechanical strength. Do not use PC vessels for vacuum applications if they have been autoclaved

# GLASS OR PLASTIC?

Labware such as beakers, bottles, graduated cylinders, flasks and funnels are ubiquitous in every lab and an essential component of nearly all laboratory workflows. But which is best, glass labware or plastic labware? This section describes the main advantages and disadvantages of both as well as other factors you need to consider when making your selection.

The first (obvious) difference to highlight between glass and plastic is that glass is heavier by about seven times. Whilst this also means that glass is generally more durable and sturdy, this difference does carry an environmental impact in that it consumes more resource and energy to actually ship and transport it around than plastic.

Plasticware is less likely to break than glass; it is impact resistant and able to absorb the shock of daily bumps and knocks within the laboratory environment without breaking. Since glass is relatively more fragile, care does need to be taken during usage and it is also important that care is taken to use glass that is fit-for-purpose and which will withstand, for example, likely extremes of physico-chemical exposure.

As mentioned earlier, some plastics contain additives which are typically used to improve its performance. However, traces of these compounds can leach out of plastic bottles and other containers and potentially contaminate the contents. In contrast, glass is impermeable and nonporous, does not degrade, and is practically chemically inert, with minimal leachage and maximal protection within a sealed glass vessel from ingress or egress of gas or liquid.

Most glass and plastic is recyclable making them both environmentally friendly. Glass can be recycled indefinitely without loss of quality, and can be re-used to manufacture brand new products time after time. On the other hand, since plastic gradually loses its integrity, it can only be recycled into a limited number of new products later on in its life, and the process itself is often more challenging and expensive, for example, the removal of additives. In fact, the term 'downcycling' is often used when referring to the recycling of plastics into products of lesser quality and reduced functionality. To aid with the segregation of the different plastics types prior to converting them into new raw materials for use in other products, the Society of the Plastics Industry (SPI) has devised a classification system to identify the seven main types of plastics (refer to Table 6: Resin Identification Codes for the Main Types of Plastics).

Glass will not pit or scratch like plastic, so you don't have to worry about scratches creating havens for bacteria. It is very easy to scratch the surface of plasticware whilst cleaning and even microscopic scratches can harbour bacteria which can skew results. In addition, glass is generally easier to clean and sanitise.

Glassware is generally considered safe for autoclaving. On the other hand not all plastics are autoclavable (refer Table 8: Sterilisation Properties of Plastics, opposite).

Other glass or plastic selection factors may include:

- Container size and physical design e.g. narrow mouth vs. wide mouth, tall vs. short etc
- Colour. Is light sensitivity an issue? Is amber glass needed?
- Shelf life. How long are you planning to store a sample or product in the container?
- Method of fabrication. Moulded or tubing based?
- Processes the container will undergo. Storage conditions (freezing or heat); washing, sterilisation; method of sealing; humidity; hot or cold filling; de-pyrogenation
- Storage after filling. Time (shelf life needed); heat, cold, moisture; shipping conditions; light exposure
- Product composition. Dry powder; pH; concentration of ions; physico-chemical properties
- Closure type. Wide mouth vs. narrow mouth; septa lined open top cap; closed cap; liner material; sealing needed; threaded cap or crimp seal

# TECHNICAL RESOURCES

## Here to give you a helping hand!

Fisher Scientific's Product Support Team is your dedicated information resource. Our Product Support Advisors are all highly qualified professionals who are here to support and guide you to the fastest, most effective and efficient answer to your enquiry.

Areas of technical expertise include:

- Bioreagents and Life Science
- Chemicals and Chromatography
- Consumables
- Equipment
- Safety

This section lists some of the most frequently asked questions about our Fisherbrand glassware and plasticware range as received by our Specialists, together with the answers they provided. If you are unable to find the answer to your question, are stuck and need help or are simply confused and unsure of which product best suits your research needs, the Product Support Team are here and ready to respond to your enquiries.










### Contact our Product Support Advisors

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Email: fsie.sales@thermofisher.com

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Email: tsdk@thermofisher.com

Tel: +351 21 425 33 50
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## FAQ's – Glassware and Plasticware

**Q. What are the main differences between borosilicate glass and soda lime glass?**

A. The main distinction of borosilicate glass from soda lime glass is the substitution of boric oxide for soda and lime in the manufacturing process. It has a higher heat resistance and does not expand like soda lime glass, meaning that it is able to handle both extreme heat and cold, making borosilicate glass very popular for laboratory glassware.

**Q. Can Fisherbrand glassware be autoclaved?**

A. Glassware is generally considered safe for autoclaving. When autoclaving glass containers ensure that caps are loosened. Autoclaving with tightly screwed caps can result in pressure differences and consequent breakage.

Do not autoclave glassware that is etched, cracked, nicked or scratched. Such defects reduce the thermal strength, making the glassware more prone to breakage.

**Q. Why are measuring flasks and beakers not classified as either Class A or Class B?**

A. Whilst Erlenmeyer flasks and beakers are marked with approximate volume indication, there is still is a +/- 5% uncertainty about where their volume line actually belongs. There are only five volumetric measuring devices recognised as suitable for precise and accurate analytical work. These are volumetric flasks, measuring cylinders, burettes and volumetric pipettes and are classified into the two different grades, Class A and Class B.

**Q. What are the differences between Class A and Class B volumetric glassware?**

A. Laboratory volumetric glassware such as volumetric flasks, measuring cylinders, burettes and volumetric pipettes are produced and calibrated in accordance with American Society for Testing and Materials (ASTM) standards (ASTM predates other standard organisations such as BSI and DIN). They are available as two different grades, Class A or Class B. The ASTM standards define the tolerances within which the markings are placed on the glass. Class A is the most accurate as it has the smallest tolerances, with Class B in general, twice the acceptance range of Class A.

**Q. What are the differences between Class AS and Class A?**

A. Fisherbrand glass volumetric pipettes are Class AS, which has recently replaced Class A. Class AS is the European standard and shares the same high accuracies and tolerances to the relevant ISO and DIN standards as Class A. Class AS serological pipettes also have a faster dispensing speed than Class A pipettes (the S stands for the German word 'schnell' which translates as 'swift'). As a consequence of the increased dispensing speed a five second waiting time must be observed when filling or dispensing the required volume. This ensures that the meniscus has settled and maintains accuracy.

**Q. Can I use ultrasonic cleaners to clean my glassware?**

A. Ultrasonic cleaning is a good method of cleaning glassware thoroughly. Ultrasonic cleaners that use heaters are the best. Generally, using an ultrasonic cleaner with a mild detergent will clean most residues from glassware. When using equipment to clean glassware ensure that the glassware is secure and take extra care when loading and unloading as this is a common cause of chips and breakages.

**Q. What is amber coated glassware used for?**

A. Amber glass is used in laboratories for the protection of UV sensitive chemicals and materials. Amber glass blocks all UV radiation from 350 to 200nm. The UVC range used for micro-organism killing purposes, between 200 to 280nm is also blocked. However, not all UV radiation is blocked by the amber glass.

**Q. What is the shelf-life of a glass bottle?**

A. Glass containers do not have an expiration date or a limit to their shelf-life. However, it is important to regularly check your glassware for signs of damage which could lead to a compromise in safety or accuracy. If there are significant signs of damage it should be disposed of and replaced.

**Q. What is the maximum temperature that I can heat my glassware?**

A. Generally, glassware can withstand temperatures up to 500°C. However, once the temperature exceeds 150°C extra special care should be taken to ensure that heating and cooling is achieved in a slow and uniform manner.

If you are using a hotplate, ensure that the top plate is larger than the base of the vessel to be heated. Also, never put cold glassware onto a hotplate which is already well heated. Warm up gradually from ambient temperature.

If using a bunsen burner, adjust it to get large soft flame, this will heat the glass slowly and more uniformly. In addition, use a wire gauze with a ceramic centre to diffuse the flame.

**Q. Do items of glassware such as burettes, volumetric flasks and pipettes need to be recalibrated after a certain length of time? If so, how frequently do they need to be calibrated?**

A. There are no defined guidelines on when to have your glassware re-calibrated as it depends on how it is cleaned, handled and stored. Normally, volumetric glassware only needs re-calibrating after extensive or demanding usage, as this may have affected its original accuracy. For example recalibration should be considered if:

- The glassware is made from soda-lime glass and has been in use for over five years
- The glassware is made from borosilicate and has been in use for over ten years
- The glassware has been subjected to temperatures in excess 150°C
- The glassware is frequently used with strong acids or bases
- There are any signs of chemical corrosion e.g. frosting of internal glass surfaces

**Q. How should I clean my volumetric glassware?**

A. The best insurance for accurate volumes is to insure that your glassware is clean. For burettes and pipettes, cleanliness of the glassware is indicated by the absence of any 'water beads' on the inside surface of the glassware. When the item is clean, the solution will exist in a thin, unbroken film on the inside of the glassware.

Typically, a brief soaking in a warm detergent solution will be enough to clean pipettes and volumetric glassware. You should avoid soaking the glassware for too long, because if it is left for too long with the detergent solution a rough area is likely to develop at the glass/air interface, which may destroy the usefulness of the equipment. After a brief (2 to 3 mins) soaking, the glassware should be rinsed thoroughly with tap water, and finally 3 to 4 rinses with distilled or deionized water. Don't dry the glass surface with towels, just leave it protected from the dust. It is not necessary to dry the glass in the lab dryer, but if you have one - use it. Not only will it dry the glass faster, but it will also keep the glass protected from the dust during drying.

**Q. Are Fisherbrand glass bottles pressure rated?**

A. Fisherbrand bottles are not pressure rated and great care should be taken when using glassware for pressure applications. Fisher Scientific cannot guarantee any glassware against breakage when used under vacuum or pressure.

**Q. Which plastics are autoclavable?**

A. Only polypropylene, PTFE, PC and PMP (TPX) products can be autoclaved (autoclave cycle is defined as 121°C at 15psi (1bar) for 20 minutes). When autoclaving bottles always ensure the caps are loosened. Autoclaving with tightly screwed caps can result in collapse or deformation. Also do not subject plastic volumetric ware such as measuring cylinders, flasks etc to temperatures above 60°C as high temperatures can affect volumetric accuracy

All Fisherbrand plasticware that can be autoclaved is identified with the following icon 


**Q. I am looking for large sample bottles which I can store in a freezer. What would you suggest?**

A. Both LDPE and HDPE has a brittleness temperature of -100°C and so can be used when freezing samples too large for standard cryovials. Care should be takes to ensure that there is enough space left in the container for the sample to expand. Suggestions include Fisher Scientific Cat. No 11735383, 11775243 and 11957934. For the full range of available volumes and neck sizes please refer to www.eu.fishersci.com

**Q. I am looking for a plastic storage bottle and it is important for me to clearly see the contents. What polymer would you suggest?**

A. For applications where optical clarity is important, polymers such as polystyrene, PET, PMP or polycarbonate would be favourable. Other polymers such as polypropylene and polyethylene are translucent and in some cases opaque and are therefore not ideal for this requirement.

**Q. What chemicals are compatible with laboratory plasticware?**

A. For specific chemical compatibility with particular polymers, please refer to the 'Chemical Compatibility Chart' chart on pages 14 and 15.

**Q. What type of detergent should I clean my plasticware with?**

A. A low or non-alkaline detergent is suitable for cleaning most plasticware, such as Fisher Scientific Cat. No 12701875. Note however that polystyrene and polycarbonate products are susceptible to attack by alkalis and a neutral detergent is recommended such as Fisher Scientific Cat. No 11502773. It is also important to avoid using abrasive cleaners or scouring pads which can result in surfaces becoming scratched and weakened.

**Q. What septa should I use?**

A. The right choice of bottle or vial septa depends on the application. Almost all septa are laminated on one side with PTFE, which has a high chemical resistance and forms an inert barrier between sample and underlying carrier material. The carrier materials have different physical and chemical properties, such as temperature resistance, resealability properties, cleanliness, hardness, thickness, etc. The guide overleaf will help you to identify the best septa for your particular application.

## Septa

**Specific conditions involved in your particular application help dictate the selection of the best septa materials as exemplified below**

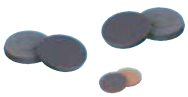
| Multiple injection? | Temperature? | | | Thin, fragile needle? | Blunt, thick needle? | Critical analysis? | Low coring? |
|---|---|---|---|---|---|---|---|
| ↓ | ↓ | | | ↓ | ↓ | ↓ | ↓ |
| good resealability properties necessary | -40°C up to 120°C | -40°C up to 110°C | -60°C up to 200°C | soft and thin septa required | Slitted/pre-cut liner as penetration aid (HPLC) | very clean liner required | Both sided PTFE laminated liners required |
| ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| **Natural Rubber/TEF** | **Natural Rubber/TEF; Butyl/PTFE** | **RedRubber/ PTFE** | **Silicone/ PTFE** | **e.g. Silicone/PTFE** | **e.g. 11841653** | UltraClean **Silicone/PTFE septa** | **PTFE/Silicone/PTFE PTFE/Butyl/PTFE** |

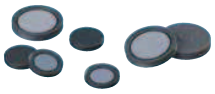
In order to help you visualise the most common septum material combinations on the market, please see the images below. Please note, however, that their colours do not necessarily provide an indication of the actual liner material itself.


Natural Rubber/TEF

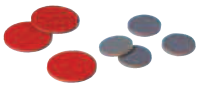

Red Rubber/PTFE beige

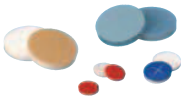

Butyl


Butyl/PTFE


Pharma-Fix-Septa (Butyl/PTFE)

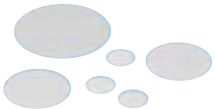

Silicone/Aluminium foil


PTFE/Silicone/PTFE PTFE/Butyl/PTFE


Silicone/PTFE

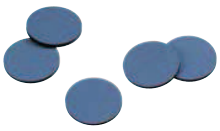

Pre-cut liners Silicone/PTFE


Viton


PTFE


Aluminium


Septa for Schott Screw Caps


PTFE/EPDM/PTFE


High Temperature Silicone/PTFE

Our product selection in this brochure focusses on everyday essential glassware and plasticware which are suitable for all types of laboratories. Look out for the Fisherbrand Spotlights which highlight additional Fisherbrand ranges, perfect to supplement your research needs. Once again Fisherbrand demonstrates that it's going that extra mile to continually deliver you quality, affordable products.

Guide to icons used throughout the following sections

A = autoclavable at 121°C for 20mins

S = sterile

N = new product

# BAGS

The range of Fisherbrand bags includes: polyethylene bags which are perfect for use in the laboratory where samples need to be taken into a sterile environment; autoclavable polypropylene biohazard bags, ideal for handling and autoclaving of contaminated matter; and homogeniser bags which can be used for all types of Stomacher™ machines and other paddle blenders.

## Bags, sample, polyethylene, sterile

S

**Secure, contaminant free bags to ensure dependable analysis results**

- Made from heavy gauge, virgin polyethylene that meets FDA specifications
- Can accommodate solid, semi-solid and liquid materials
- Easy to use, just insert sample and seal by twirling the bag away from you four times and bending wire ends inward
- Choice of round wire or flat wire closures (flat wire closures provide extra strength to seal larger and heavier samples)
- Available in a variety of sizes and with clear or printed write on labels

| Cat. No | Capacity, mL | Pack qty |
|---|---|---|
| **Clear, unlabelled with round wire closure** | | |
| **11924385** | 120 | 500 |
| **11904395** | 540 | 500 |
| **11944395** | 720 | 500 |
| **11964405** | 810 | 500 |
| **11954405** | 1,260 | 500 |
| **With writing patch and round wire closure** | | |
| **11944405** | 60 | 500 |
| **11954385** | 120 | 500 |
| **11974395** | 720 | 500 |
| **11914405** | 1,800 | 250 |
| **11738046** | 3,000 | 250 |
| **Clear, unlabelled, with flat wire closure** | | |
| **13158167** | 720 | 500 |
| **11974405** | 1,260 | 500 |
| **11768026** | 1,650 | 250 |
| **With writing patch and flat wire closure** | | |
| **11984395** | 540 | 500 |
| **11904405** | 720 | 500 |
| **11984385** | 1,650 | 250 |




## Bags, sample, polyethylene, sterile, metal wire closure

S

**For use in all laboratories where samples need to be collected into a sterile environment.**

- Sterile transparent polyethylene bags without side seals in either plain or write-on style
- Convenient pull tabs to open bag without touching the edges
- Twirl round metal wire closure system with safety tabs to leakproof when sealed
- Ideal for use with solid, semi-solid or liquid samples
- Opening along width

| Cat. No | Width, mm | Depth, mm | Capacity, mm | Thickness, µm | Inner pack qty | Pack qty |
|---|---|---|---|---|---|---|
| **Plain style** | | | | | | |
| **11512773** | 76 | 127 | 60 | 63 | 500 | 1,000 |
| **11522773** | 76 | 178 | 150 | 63 | 500 | 1,000 |
| **11532773** | 114 | 229 | 450 | 63 | 500 | 1,000 |
| **11542773** | 140 | 229 | 650 | 76 | 500 | 1,000 |
| **11552773** | 114 | 305 | 800 | 76 | 500 | 1,000 |
| **11562773** | 114 | 382 | 1,060 | 76 | 500 | 1,000 |
| **11572773** | 140 | 382 | 1,500 | 76 | 500 | 1,000 |
| **11582773** | 254 | 305 | 2,250 | 101 | 500 | 1,000 |
| **11592773** | 254 | 382 | 4,000 | 101 | 500 | 1,000 |
| **Write-on style, smudge proof writing surface** | | | | | | |
| **11502783** | 76 | 127 | 60 | 63 | 500 | 1,000 |
| **11512783** | 76 | 178 | 120 | 63 | 500 | 1,000 |
| **11532783** | 114 | 229 | 540 | 63 | 500 | 1,000 |
| **11542783** | 140 | 229 | 650 | 76 | 500 | 1,000 |
| **11562783** | 254 | 305 | 2,250 | 101 | 500 | 1,000 |
| **11572783** | 254 | 382 | 4,000 | 101 | 500 | 1,000 |



## Bags, biohazard, polypropylene, autoclavable, high temperature

**Strong, pliable, leak and puncture resistant bags in clear polypropylene**

- For high temperature sterilisation (134°C) to a maximum of 140°C:
  - All bags are 40µm thick.
  - The bags should be loosely tied at the top leaving a small hole prior to being autoclaved using autoclave indicator tape.
  - Opening along width.




| Cat. No | Width, mm | Depth, mm | Pack qty |
|---|---|---|---|
| **Printed polypropylene** | | | |
| **11600312** | 310 | 660 | 100 |
| **11553342** | 410 | 630 | 100 |
| **11563342** | 620 | 780 | 100 |

| Cat. No | Width, mm | Depth, mm | Pack qty |
|---|---|---|---|
| **Plain, polypropylene** | | | |
| **11573342** | 310 | 660 | 100 |
| **11583342** | 410 | 630 | 100 |
| **11593342** | 620 | 780 | 100 |

## Bags, biohazard, autoclavable, roll packs

**Standard temperature bags**

- 40µm thickness
- With printed biohazard symbol
- Supplied on convenient rolls of 25 tear off bags per roll
- Suitable for temperatures of up to 134°C



| Cat. No | Width, mm | Depth, mm | Capacity, L | No. of rolls |
|---|---|---|---|---|
| **Standard temperature (121°C), HDPE bags, rolls of 25 bags** | | | | |
| **11517762** | 250 | 400 | 3 | 40 |
| **11547762** | 400 | 780 | 21 | 16 |

| Cat. No | Width, mm | Depth, mm | Capacity, L | Pack qty |
|---|---|---|---|---|
| **High temperature (134°C) PP, bags in bulk packs** | | | | |
| **11850482** | 400 | 780 | 21 | 500 |

## Bags, homogeniser blender, polyethylene

**Homogeniser bags for all types of Stomacher machines and other paddle blenders**

- Sterile by irradiation with peel away sterilisation certificate
- Model 400 bags available in a range of different sleeve/pack sizes, with full or side filter, with 50mm white writing strip along one long edge
- 70µm thickness



| Cat. No | Blender type | Style | Length, mm | Width, mm | Sleeve qty | Pack qty |
|---|---|---|---|---|---|---|
| **11815390** | Model 80 | Plain | 150 | 105 | 25 | 4,500 |
| **12682255** | Model 400 | Plain | 300 | 180 | 25 | 2,500 |
| **11867313** | Model 400 | Full size filter | 300 | 180 | 25 | 1,500 |
| **11857403** | Model 400 | Side filter | 300 | 180 | 25 | 1,500 |
| **11770545** | Model 3500 | Plain | 510 | 380 | 25 | 500 |
| **Accessory** | | | | | | |
| **11522882** | All | Clip for bags | - | - | 200 | 200 |



FISHERBRAND
SPOTLIGHT

A perfect supplement to this range is the new Fisherbrand bag sealer. This is a useful addition for any lab for the secure sealing of specimen bags.

**Bag sealer**
Cat. No 15360360 (EU plug)
Cat. No 15350360 (UK plug)







**Sample bags**
pages 24 & 25



**Permanent marker pens**
Cat. No 11734386

For further information on the products featured visit www.eu.fishersci.com/go/fisherbrand

# BEAKERS

Beakers are an essential product in all laboratories used for routine measurement, mixing and gentle heating of materials. The Fisherbrand range features sizes from 25mL up to 10L in a range of styles including squat form or low, tall form and tri-cornered. Other items include watch glasses or beaker covers, which can be used to prevent contamination.

## Beakers, squat form

- Borosilicate glass
- Squat form with spout and graduations
- ISO 3819 DIN 12331

| Cat. No | Capacity, mL | Height, mm | Exterior diameter, mm | Pack qty |
|---|---|---|---|---|
| **15469073** | 25 | 50 | 34 | 10 |
| **15479073** | 50 | 60 | 42 | 10 |
| **15489073** | 100 | 70 | 50 | 10 |
| **15499073** | 150 | 80 | 60 | 10 |
| **15409083** | 250 | 95 | 70 | 10 |
| **15419083** | 400 | 110 | 80 | 10 |
| **15429083** | 600 | 125 | 90 | 10 |
| **15439083** | 800 | 135 | 100 | 10 |
| **15449083** | 1,000 | 143 | 105 | 10 |
| **15459083** | 2,000 | 185 | 130 | 1 |
| **15469083** | 3,000 | 210 | 150 | 1 |
| **15479083** | 5,000 | 270 | 170 | 1 |
| **15489083** | 10,000 | 350 | 217 | 1 |




## Beakers, borosilicate glass, tall form

- Tall form with spout and graduations
- ISO 3819, DIN 12331

| Cat. No | Capacity, mL | Pack qty |
|---|---|---|
| **15499083** | 50 | 10 |
| **15409093** | 100 | 10 |
| **15419093** | 150 | 10 |
| **15429093** | 250 | 10 |
| **15439093** | 400 | 10 |
| **15449093** | 600 | 10 |
| **15459093** | 800 | 10 |
| **15469093** | 1,000 | 10 |
| **15479093** | 2,000 | 1 |
| **15489093** | 3,000 | 1 |




## Beakers, borosilicate glass, squat form, heavy duty

- Heavy wall construction for increased mechanical strength
- Full 3.3 expansion borosilicate glass
- Reinforced rim with 'easy pour' pouring spout
- Graduated in white ceramic with marking area
- Uniform wall thickness for optimum optical clarity

| Cat. No | Capacity, mL | Pack qty |
|---|---|---|
| **15446123** | 150 | 10 |
| **15476123** | 250 | 10 |
| **15486123** | 400 | 10 |
| **15496123** | 600 | 10 |
| **15406133** | 1,000 | 10 |
| **15426133** | 2,000 | 4 |
| **15436133** | 4,000 | 1 |



## Beakers, ultra clear polypropylene, squat form

- Large pouring spout and moulded graduations
- Not suitable for stirrer hotplates

| Cat. No | Capacity, mL | Pack qty |
|---|---|---|
| **11572283** | 25 | 10 |
| **11512293** | 500 | 10 |



## Beakers, PTFE, squat form

- Non-contaminating and inert to highly corrosive reagents.
- Non-wettable, lightweight and heat resistant
- Can be heated on a hotplate up to 280°C
- Easy to clean
- Spout for easy pouring
- Isostatically moulded from pure PTFE

| Cat. No | Capacity, mL | Pack qty |
|---|---|---|
| **10733271** | 5 | 1 |
| **10166570** | 10 | 1 |
| **10288380** | 25 | 1 |
| **10628461** | 50 | 1 |
| **10792921** | 100 | 1 |
| **10248480** | 150 | 1 |
| **10713101** | 250 | 1 |
| **10349740** | 500 | 1 |
| **10044630** | 1,000 | 1 |
| **10762751** | 2,000 | 1 |
| **10237860** | 5,000 | 1 |



## Beakers, polypropylene, tri-cornered

- Suitable for use with commonly used acids, alkalis and solvents
- Each beaker has three drip-free pouring spouts
- Moulded graduations, stackable

| Cat. No | Capacity, mL | Subdivisions, mL | Height, mm | O.D., mm | Pack qty |
|---|---|---|---|---|---|
| **11749398** | 50 | 5 | 57 | 49 | 100 |
| **11759398** | 100 | 10 | 72 | 58 | 100 |
| **11769398** | 250 | 10 | 90 | 76 | 100 |
| **11779398** | 400 | 20 | 108 | 85 | 100 |
| **11789398** | 800 | 50 | 133 | 107 | 100 |
| **11799398** | 1,000 | 50 | 145 | 115 | 100 |



## Beakers, PTFE, Thermotech™

- Pure PTFE body with a specially formulated stablilising PTFE carbon base as a single moulding.
- Totally inert pure PTFE inner surface
- Heatable to 270°C
- Improved heat transfer

| Cat. No | O.D., mm | Capacity, mL | Height, mm | Pack qty |
|---|---|---|---|---|
| **10630034** | 56 | 100 | 74 | 1 |
| **10736934** | 75 | 250 | 94 | 1 |
| **10746934** | 85 | 400 | 112 | 1 |



## Watch glasses/beaker covers, PTFE

- Inert, chemically resistant
- Smooth internal finish
- Exceptional thermal resistance: can be used down to -200°C and up to 280°C

| Cat. No | O.D., mm | For beaketr, mL | Pack qty |
|---|---|---|---|
| **10587092** | 50 | 50 | 1 |
| **10278000** | 60 | 100 | 1 |
| **10379880** | 75 | 150 | 1 |
| **10288000** | 80 | 250 | 1 |
| **10014680** | 100 | 500 | 1 |
| **10676921** | 125 | 1,000 | 1 |
| **10024680** | 150 | 2,000 | 1 |





FISHERBRAND SPOTLIGHT

Fisherbrand overhead digital stirrers are high performance stirrers that offer power, control, simplicity and versatility. The compact overhead stirrer is used for general purpose mixing, while the high torque model is able to meet the demands of heavy industrial use.



**Overhead Stirrer**
Cat. No 15203807



**High torque overhead stirrer**
Cat. No 15293797

For further information on the products featured visit www.eu.fishersci.com/go/fisherbrand

# BOTTLES

All of the popular bottle styles are available within the Fisherbrand range, including Boston rounds, wide mouth rounds, straight sided bottles, media bottles, plastic coated bottles. Bottles are available in bulk packs, with or without caps attached and in clear or amber glass for light sensitive samples. Other items include jerrycans, wash bottles and sprayers.

## Bottles, soda glass, Boston round (narrow mouth)

- Narrow mouth, ideal for solvents, chemicals and sample storage
- Available in clear and amber
- Containers and caps are available 'Custom cleaned' which are pre-cleaned for visible particulates using deionised water (no documentation supplied)
- Containers and caps are available 'certified low particulate' which are cleaned for low particulates. The tolerance at 0.5µm is five particles or less per mL with WFI in a class 100/10 cleanroom. A certificate of analysis is attached
- Bottles marked 'Safety coated' are ideal for field sampling applications. The shatter resistant coating reduces the chance of breakage. If the bottle does break, the coating will safely contain the contents long enough for disposal. The non-slip coating also allows greater stability in handling containers, whether wet or dry. All bottles are packed with caps attached.

| Cat. No | Capacity, mL | Dia x H mm | Thread style | Mouth ID mm | Pack qty |
|---|---|---|---|---|---|
| **For general use, with white polypropylene cap with PTFE faced foamed polyethylene liner, clear** | | | | | |
| **11728889** | 30 | 31 x 79 | 20/400 | 10.3 | 48 |
| **11738889** | 60 | 39 x 94 | 20/400 | 10.3 | 24 |
| **11748889** | 125 | 48 x 112 | 22/400 | 12.2 | 24 |
| **11758889** | 250 | 60 x 136 | 24/400 | 13.1 | 12 |
| **11768889** | 500 | 75 x 168 | 28/400 | 15.5 | 12 |
| **11778889** | 1,000 | 94 x 206 | 33/400 | 20.1 | 12 |
| **For general use, with black Poly-Seal™ lined cap, clear** | | | | | |
| **11708729** | 30 | 31 x 79 | 20/400 | 10.3 | 48 |
| **11718729** | 60 | 39 x 94 | 20/400 | 10.3 | 24 |
| **11728729** | 125 | 48 x 112 | 22/400 | 12.2 | 24 |
| **11738729** | 250 | 60 x 136 | 24/400 | 13.1 | 12 |
| **11748729** | 500 | 75 x 168 | 28/400 | 15.5 | 12 |
| **11758729** | 1,000 | 94 x 206 | 33/400 | 20.1 | 12 |
| **For general use, with white polypropylene cap polyvinyl liner, clear** | | | | | |
| **11788889** | 30 | 31 x 79 | 20/400 | 10.3 | 48 |
| **11798889** | 60 | 39 x 94 | 20/400 | 10.3 | 24 |
| **11744239** | 60 | 39 x 94 | 20/400 | 10.3 | 288 |
| **11768909** | 125 | 48 x 112 | 22/400 | 12.2 | 24 |
| **11754239** | 125 | 48 x 112 | 22/400 | 12.2 | 160 |
| **11778909** | 250 | 60 x 136 | 24/400 | 13.1 | 12 |
| **11764239** | 250 | 60 x 136 | 24/400 | 13.1 | 108 |
| **11788909** | 500 | 75 x 168 | 28/400 | 15.5 | 12 |
| **11583562** | 500 | 75 x 168 | 28/400 | 15.5 | 60 |
| **11798909** | 1,000 | 94 x 206 | 33/400 | 20.1 | 12 |
| **For general use, bottle only, clear** | | | | | |
| **11523582** | 30 | 31 x 79 | 20/400 | 10.3 | 432 |
| **11533582** | 60 | 39 x 94 | 20/400 | 10.3 | 288 |
| **11543582** | 125 | 48 x 112 | 22/400 | 12.2 | 160 |
| **11774239** | 250 | 60 x 136 | 24/400 | 13.1 | 108 |
| **11563582** | 500 | 75 x 168 | 28/400 | 15.5 | 60 |
| **11573582** | 1,000 | 94 x 206 | 33/400 | 20.1 | 12 |
| **Safety coated, with white polypropylene cap with PTFE faced foamed polyethylene liner, clear. Not autoclavable** | | | | | |
| **11768949** | 250 | 63 x 138 | 24/400 | 13.1 | 12 |
| **11788959** | 500 | 78 x 170 | 28/400 | 15.5 | 12 |
| **11798959** | 1,000 | 97 x 208 | 33/400 | 20.1 | 12 |
| **Safety coated, with black Poly-Seal™ lined cap, clear. Not autoclavable** | | | | | |
| **11583592** | 250 | 63 x 138 | 24/400 | 13.1 | 12 |
| **11593592** | 500 | 78 x 170 | 28/400 | 15.5 | 12 |
| **11503602** | 1,000 | 97 x 208 | 33/400 | 20.1 | 12 |
| **Safety coated, bottle only, clear** | | | | | |
| **11543602** | 250 | 63 x 138 | 24/400 | 13.1 | 108 |
| **11553602** | 500 | 78 x 170 | 28/400 | 15.5 | 60 |
| **11563602** | 1,000 | 97 x 208 | 33/400 | 20.1 | 30 |
| **Custom cleaned, with white polypropylene cap with PTFE faced foamed polyethylene liner, clear** | | | | | |
| **13137664** | 30 | 31 x 79 | 20/400 | 10.3 | 48 |
| **11764289** | 60 | 39 x 94 | 20/400 | 10.3 | 24 |
| **13164634** | 250 | 60 x 136 | 24/400 | 13.1 | 12 |
| **13157474** | 500 | 75 x 168 | 28/400 | 15.5 | 12 |
| **11774289** | 1,000 | 94 x 206 | 33/400 | 20.1 | 12 |
| **Certified low particulate, with white polypropylene cap polyvinyl liner, clear** | | | | | |
| **13187664** | 125 | 48 x 112 | 22/400 | 12.2 | 24 |
| **13178063** | 250 | 60 x 136 | 24/400 | 13.1 | 12 |
| **13171794** | 500 | 75 x 168 | 28/400 | 15.5 | 12 |
| **13151794** | 1,000 | 94 x 206 | 33/400 | 20.1 | 12 |



## Bottles, soda glass, Boston round (narrow mouth) - continued

| Cat. No | Capacity, mL | Dia x H mm | Thread style | Mouth ID mm | Pack qty |
|---|---|---|---|---|---|
| **For general use with white polypropylene cap with PTFE faced foamed polyethylene liner, amber** | | | | | |
| **11708919** | 30 | 31 x 79 | 20/400 | 10.3 | 48 |
| **11718919** | 60 | 39 x 94 | 20/400 | 10.3 | 24 |
| **11728919** | 125 | 48 x 112 | 22/400 | 12.2 | 24 |
| **11738919** | 250 | 60 x 136 | 24/400 | 13.1 | 12 |
| **11748919** | 500 | 75 x 168 | 28/400 | 15.5 | 12 |
| **11758919** | 1,000 | 94 x 206 | 33/400 | 20.1 | 12 |
| **For general use with black with Poly-Seal™ lined, amber** | | | | | |
| **11503622** | 15 | 25 x 68 | 18/400 | 8.3 | 720 |
| **11768729** | 30 | 31 x 79 | 20/400 | 10.3 | 48 |
| **11778729** | 60 | 39 x 94 | 20/400 | 10.3 | 24 |
| **11714249** | 60 | 39 x 94 | 20/400 | 10.3 | 288 |
| **11788729** | 125 | 48 x 112 | 22/400 | 12.2 | 24 |
| **11553622** | 125 | 48 x 112 | 22/400 | 12.2 | 160 |
| **11728739** | 250 | 60 x 136 | 24/400 | 13.1 | 12 |
| **11573622** | 250 | 60 x 136 | 24/400 | 13.1 | 108 |
| **11738739** | 500 | 75 x 168 | 28/400 | 15.5 | 12 |
| **11593622** | 500 | 75 x 168 | 28/400 | 15.5 | 60 |
| **11748739** | 1,000 | 94 x 206 | 33/400 | 20.1 | 12 |
| **11724249** | 1,000 | 94 x 206 | 33/400 | 20.1 | 30 |
| **For general use with white polypropylene cap with polyvinyl liner, amber** | | | | | |
| **11794239** | 15 | 25 x 68 | 18/400 | 8.3 | 720 |
| **11758739** | 30 | 31 x 79 | 20/400 | 10.3 | 48 |
| **11768739** | 60 | 39 x 94 | 20/400 | 10.3 | 24 |
| **11704249** | 60 | 39 x 94 | 20/400 | 10.3 | 288 |
| **11778739** | 125 | 48 x 112 | 22/400 | 12.2 | 24 |
| **11533612** | 125 | 48 x 112 | 22/400 | 12.2 | 160 |
| **11788739** | 250 | 60 x 136 | 24/400 | 13.1 | 12 |
| **11553612** | 250 | 60 x 136 | 24/400 | 13.1 | 108 |
| **11798739** | 500 | 75 x 168 | 28/400 | 15.5 | 12 |
| **11573612** | 500 | 75 x 168 | 28/400 | 15.5 | 60 |
| **11708749** | 1,000 | 94 x 206 | 33/400 | 20.1 | 12 |
| **11593612** | 1,000 | 94 x 206 | 33/400 | 20.1 | 30 |
| **For general use, bottle only, amber** | | | | | |
| **11583632** | 15 | 25 x 68 | 18/400 | 8.3 | 720 |
| **11503642** | 60 | 39 x 94 | 20/400 | 10.3 | 288 |
| **11513642** | 125 | 48 x 112 | 22/400 | 12.2 | 160 |
| **11523642** | 250 | 60 x 136 | 24/400 | 13.1 | 108 |
| **11734249** | 500 | 75 x 168 | 28/400 | 15.5 | 60 |
| **11744249** | 1,000 | 94 x 206 | 33/400 | 20.1 | 30 |
| **Safety coated, with white polypropylene cap with PTFE faced foamed polyethylene liner, amber. Not autoclavable** | | | | | |
| **11708969** | 125 | 51 x 114 | 22/400 | 12.2 | 24 |
| **11718969** | 250 | 63 x 138 | 24/400 | 13.1 | 12 |
| **11738969** | 500 | 78 x 170 | 28/400 | 15.5 | 12 |
| **11728969** | 1,000 | 97 x 208 | 33/400 | 20.1 | 12 |
| **Safety coated, with Poly-Seal™ lined cap, amber. Not autoclavable** | | | | | |
| **11523652** | 125 | 51 x 114 | 22/400 | 12.2 | 24 |
| **11533652** | 250 | 63 x 138 | 24/400 | 13.1 | 12 |
| **11543652** | 500 | 78 x 170 | 28/400 | 15.5 | 12 |
| **11553652** | 1,000 | 97 x 208 | 33/400 | 20.1 | 12 |
| **Safety coated, bottle only, amber** | | | | | |
| **11503662** | 125 | 51 x 114 | 22/400 | 12.2 | 160 |
| **Certified cleaned, with white polypropylene cap with PTFE faced foamed polyethylene liner, amber** | | | | | |
| **11774299** | 250 | 60 x 136 | 24/400 | 13.1 | 12 |
| **13117474** | 1,000 | 96 x 217 | 33/430 | 17.9 | 12 |
| **Custom cleaned, with white polypropylene cap with PTFE faced foamed polyethylene liner, amber** | | | | | |
| **11744289** | 60 | 39 x 94 | 20/400 | 10.3 | 24 |
| **13137474** | 125 | 48 x 112 | 22/400 | 12.2 | 24 |
| **13168063** | 250 | 60 x 136 | 24/400 | 13.1 | 12 |
| **13127474** | 500 | 75 x 168 | 28/400 | 15.5 | 12 |
| **11754289** | 1,000 | 94 x 206 | 33/400 | 20.1 | 12 |



## Bottles, soda glass, wide mouth packers

- Ideal for storage of dry powders
- Wide mouth bottles allow for easy accessibility for removal of contents
- Available in clear and amber
- Containers and caps which are 'custom cleaned' are cleaned of visible particulates using deionised water. This is non-certified (no documentation supplied)
- Containers which are 'certified clean' are cleaned as per EPA guidelines for semi-volatiles, pesticides, PCBs and metals. A certificate of analysis is attached to each lot
- Safety coated bottles are ideal for field sampling applications. The shatter resistant coating reduces the chance of breakage in the event the container is dropped. If the bottle does break, the coating will safely contain the contents long enough for disposal. The non-slip bottles are packed with caps attached

| Cat. No | Capacity, mL | Dia x H mm | Thread style | Mouth ID mm | Pack qty |
|---|---|---|---|---|---|
| **For general use with white polypropylene cap with PTFE faced foamed polyethylene liner, clear** | | | | | |
| **11718749** | 125 | 52 x 84 | 48/400 | 35.0 | 24 |
| **11704329** | 250 | 63 x 110 | 58/400 | 44.1 | 24 |
| **11714329** | 500 | 79 x 133 | 63/400 | 50.1 | 24 |
| **11734329** | 2,000 | 122 x 213 | 83/400 | 69.9 | 6 |
| **11553672** | 3,810 | 157 x 256 | 89/400 | 74.1 | 4 |
| **For general use with white polypropylene cap with polyvinyl liner, clear** | | | | | |
| **11744329** | 125 | 52 x 84 | 48/400 | 35.0 | 24 |
| **11754329** | 250 | 63 x 110 | 58/400 | 44.1 | 24 |
| **11764329** | 500 | 79 x 133 | 63/400 | 50.1 | 24 |
| **11784329** | 2,000 | 122 x 213 | 83/400 | 69.9 | 6 |
| **11593662** | 3,810 | 157 x 256 | 89/400 | 74.1 | 4 |
| **For general use, bottle only, clear** | | | | | |
| **11563672** | 125 | 52 x 84 | 48/400 | 35.0 | 24 |
| **11573672** | 250 | 63 x 110 | 58/400 | 44.1 | 24 |
| **11583672** | 500 | 79 x 133 | 63/400 | 50.1 | 24 |
| **11503682** | 2,000 | 122 x 213 | 83/400 | 69.9 | 6 |
| **11513682** | 3,810 | 157 x 256 | 89/400 | 74.1 | 4 |
| **For general use with white polypropylene cap with PTFE faced foamed polyethylene liner, amber** | | | | | |
| **11754249** | 30 | 37 x 65 | 28/400 | 15.5 | 24 |
| **11764249** | 60 | 44 x 75 | 33/400 | 20.1 | 24 |
| **11774249** | 125 | 54 x 95 | 38/400 | 25.1 | 24 |
| **11784249** | 250 | 66 x 119 | 45/400 | 31.8 | 24 |
| **11794249** | 500 | 80 x 146 | 53/400 | 40.1 | 12 |
| **11704259** | 1,000 | 99 x 178 | 53/400 | 40.1 | 12 |
| **11563702** | 1,250 | 106 x 190 | 70/400 | 57.2 | 6 |
| **11714259** | 2,500 | 140 x 239 | 70/400 | 54.9 | 12 |
| **For general use, with Poly-Seal™ lined cap, amber. Cap colour may vary** | | | | | |
| **11728749** | 30 | 37 x 65 | 28/400 | 15.5 | 24 |
| **11738749** | 60 | 44 x 75 | 33/400 | 20.1 | 24 |
| **11748749** | 125 | 54 x 95 | 38/400 | 25.1 | 24 |
| **For general use with white polypropylene cap with polyvinyl liner, amber** | | | | | |
| **11724259** | 6 | 24 x 44 | 20/400 | 11.9 | 720 |
| **11533682** | 8 | 25 x 52 | 20/400 | 10.3 | 912 |
| **11734259** | 15 | 31 x 50 | 28/400 | 15.5 | 624 |
| **11754319** | 30 | 37 x 65 | 28/400 | 15.5 | 24 |
| **11563682** | 30 | 37 x 65 | 28/400 | 15.5 | 432 |
| **11758749** | 60 | 44 x 75 | 33/400 | 20.1 | 24 |
| **11744259** | 60 | 44 x 75 | 33/400 | 20.1 | 216 |
| **11593682** | 15 | 54 x 95 | 38/400 | 25.1 | 24 |
| **11754259** | 125 | 54 x 95 | 38/400 | 25.1 | 180 |
| **11774319** | 250 | 66 x 119 | 45/400 | 31.8 | 24 |
| **11523692** | 250 | 66 x 119 | 45/400 | 31.8 | 84 |
| **11784319** | 500 | 80 x 146 | 53/400 | 40.1 | 12 |
| **11734319** | 500 | 80 x 146 | 53/400 | 40.1 | 60 |
| **11778849** | 1,000 | 99 x 178 | 53/400 | 40.1 | 12 |
| **11744319** | 1,000 | 99 x 178 | 53/400 | 40.1 | 36 |





## Bottles, soda glass, wide mouth packers - continued

A

| Cat. No | Capacity, mL | Dia x H mm | Thread style | Mouth ID mm | Pack qty |
|---|---|---|---|---|---|
| **For general use, bottle only, amber** | | | | | |
| **11583702** | 6 | 24 x 44 | 20/400 | 11.9 | 720 |
| **11503712** | 15 | 31 x 50 | 28/400 | 15.5 | 624 |
| **11513712** | 30 | 37 x 65 | 28/400 | 15.5 | 432 |
| **11523712** | 60 | 44 x 75 | 33/400 | 20.1 | 216 |
| **11533712** | 125 | 54 x 95 | 38/400 | 25.1 | 180 |
| **11543712** | 250 | 66 x 119 | 45/400 | 31.8 | 84 |
| **11553712** | 500 | 80 x 146 | 53/400 | 40.1 | 60 |
| **11563712** | 1,000 | 99 x 178 | 53/400 | 40.1 | 36 |
| **Safety coated, with white polypropylene cap with PTFE faced foamed polyethylene liner, amber. Not autoclavable** | | | | | |
| **11708809** | 250 | 69 x 121 | 45/400 | 31.8 | 24 |
| **11718809** | 500 | 83 x 148 | 53/400 | 40.1 | 12 |
| **11728809** | 1,000 | 102 x 180 | 53/400 | 40.1 | 12 |
| **Safety coated bottle only, amber. Not autoclavable** | | | | | |
| **11513732** | 250 | 69 x 121 | 45/400 | 31.8 | 24 |
| **11523732** | 500 | 83 x 148 | 53/400 | 40.1 | 12 |
| **11533732** | 1,000 | 102 x 180 | 53/400 | 40.1 | 12 |
| **Certified clean, with white polypropylene cap with PTFE faced foamed polyethylene liner, amber** | | | | | |
| **11734299** | 30 | 37 x 65 | 28/400 | 15.5 | 24 |
| **12548716** | 60 | 44 x 75 | 33/400 | 20.1 | 24 |
| **11744299** | 125 | 54 x 95 | 38/400 | 25.1 | 12 |
| **11754299** | 250 | 66 x 119 | 45/400 | 31.8 | 12 |
| **11764299** | 500 | 80 x 146 | 53/400 | 40.1 | 12 |
| **12558716** | 1,000 | 99 x 178 | 53/400 | 40.1 | 12 |
| **Custom cleaned, with white polypropylene cap with PTFE faced foamed polyethylene liner, amber** | | | | | |
| **11704289** | 60 | 44 x 75 | 33/400 | 20.1 | 24 |
| **11714289** | 125 | 54 x 95 | 38/400 | 25.1 | 24 |
| **11724289** | 250 | 66 x 119 | 45/400 | 31.8 | 24 |
| **11734289** | 500 | 80 x 146 | 53/400 | 40.1 | 12 |
| **13161794** | 1,000 | 99 x 178 | 53/400 | 40.1 | 12 |
| **For general use, with white polypropylene cap with PTFE faced foamed polyethylene liner, clear, graduated** | | | | | |
| **11718769** | 30 | 34 x 68 | 33/400 | 20.1 | 48 |
| **11728769** | 60 | 42 x 83 | 38/400 | 25.1 | 48 |
| **11738769** | 125 | 51 x 102 | 48/400 | 35.0 | 24 |
| **11744199** | 250 | 62 x 127 | 58/400 | 44.1 | 24 |
| **11748769** | 500 | 76 x 145 | 70/400 | 57.2 | 24 |
| **For general use, with Poly-Seal™ lined cap, clear, graduated** | | | | | |
| **11798759** | 30 | 34 x 68 | 33/400 | 20.1 | 48 |
| **11553742** | 30 | 42 x 83 | 33/400 | 25.1 | 432 |
| **11708769** | 60 | 42 x 83 | 38/400 | 25.1 | 48 |
| **11573742** | 60 | 42 x 83 | 38/400 | 25.1 | 288 |
| **For general use, bottle only, clear, graduated** | | | | | |
| **11533752** | 30 | 34 x 68 | 33/400 | 20.1 | 432 |
| **11543752** | 60 | 42 x 83 | 38/400 | 25.1 | 288 |
| **11553752** | 125 | 51 x 102 | 48/400 | 35.0 | 144 |
| **11563752** | 250 | 62 x 127 | 58/400 | 44.1 | 96 |
| **11573752** | 500 | 76 x 145 | 70/400 | 57.2 | 48 |
| **For general use with white polypropylene cap with polyvinyl liner, clear, graduated** | | | | | |
| **11768859** | 30 | 34 x 68 | 33/400 | 20.1 | 48 |
| **11553732** | 30 | 34 x 68 | 33/400 | 20.1 | 432 |
| **11778859** | 60 | 42 x 83 | 38/400 | 25.1 | 48 |
| **11573732** | 60 | 42 x 83 | 38/400 | 25.1 | 288 |
| **11788859** | 125 | 51 x 102 | 48/400 | 35.0 | 24 |
| **11593732** | 125 | 51 x 102 | 48/400 | 35.0 | 144 |
| **11798859** | 250 | 62 x 127 | 58/400 | 44.1 | 24 |
| **11513742** | 250 | 62 x 127 | 58/400 | 44.1 | 96 |
| **11708869** | 500 | 76 x 145 | 70/400 | 57.2 | 24 |
| **11794319** | 500 | 76 x 145 | 70/400 | 57.2 | 48 |
| **Certified low particulate, with white polypropylene cap with PTFE faced foamed polyethylene liner, clear, graduated** | | | | | |
| **13158063** | 125 | 51 x 102 | 48/400 | 35.0 | 24 |
| **13174364** | 500 | 76 x 145 | 70/400 | 57.2 | 24 |





## Bottles, soda glass, straight sided

- Ideal for soil sampling and environmental applications.
- Straight sided walls allow for the complete removal of contents
- Bottles are autoclavable but the caps are not autoclavable
- Bottles are packed with PTFE lined caps ready-fitted
- Available certified cleaned per EPA guidelines for semi-volatiles, pesticides, PBCs and metals. A certificate of analysis is attached to each lot
- Safety coated bottles are ideal for field sampling applications. The shatter resistant coating reduces the chance of breakage in the event the container is dropped. If the bottle does break, the coating will safely contain the contents long enough for disposal. The non-slip coating also allows greater ease of stability in handling containers, whether wet or dry.

| Cat. No | Capacity, mL | Dia x H mm | Thread style | Mouth ID mm | Pack qty |
|---|---|---|---|---|---|
| **For general use with white polypropylene cap with PTFE faced foamed polyethylene liner, clear** | | | | | |
| **11714339** | 30 | 43 x 43 | 43/400 | 27.7 | 48 |
| **11724339** | 60 | 55 x 48 | 53/400 | 40.1 | 24 |
| **11734339** | 125 | 60 x 68 | 58/400 | 40.1 | 24 |
| **11778789** | 250 | 73 x 88 | 70/400 | 47.0 | 12 |
| **11744339** | 500 | 91 x 95 | 89/400 | 69.8 | 12 |
| **11754339** | 1,000 | 95 x 170 | 89/400 | 74.1 | 12 |
| **For general use with white polypropylene cap with polyvinyl liner, clear** | | | | | |
| **11764339** | 30 | 43 x 43 | 43/400 | 27.7 | 48 |
| **11774339** | 60 | 55 x 48 | 53/400 | 40.1 | 24 |
| **11784339** | 125 | 60 x 68 | 58/400 | 40.1 | 24 |
| **11794339** | 250 | 73 x 88 | 70/400 | 53.1 | 12 |
| **11704349** | 500 | 91 x 95 | 89/400 | 69.8 | 12 |
| **11714349** | 1,000 | 95 x 170 | 89/400 | 74.1 | 12 |
| **For general use, bottle only, clear** | | | | | |
| **11513792** | 30 | 43 x 43 | 43/400 | 27.7 | 384 |
| **11523792** | 60 | 55 x 48 | 53/400 | 40.1 | 144 |
| **11533792** | 125 | 60 x 68 | 58/400 | 40.1 | 24 |
| **11543792** | 250 | 73 x 88 | 70/400 | 53.1 | 12 |
| **11553792** | 500 | 91 x 95 | 89/400 | 69.8 | 12 |
| **11563792** | 1,000 | 95 x 170 | 89/400 | 74.1 | 12 |
| **Safety coated, with white polypropylene cap with PTFE faced foamed polyethylene liner, clear** | | | | | |
| **11553782** | 250 | 75 x 91 | 70/400 | 53.1 | 12 |
| **11563782** | 500 | 79 x 147 | 89/400 | 57.2 | 12 |
| **Safety coated, with white polypropylene cap with polyvinyl liner, clear** | | | | | |
| **11523782** | 250 | 2.95 x 3.58 | 70/400 | 53.1 | 12 |
| **11533782** | 500 | 3.11 x 5.79 | 89/400 | 57.2 | 12 |
| **11543782** | 1,000 | 3.82 x 9.02 | 89/400 | 57.2 | 12 |
| **Certified clean, with white polypropylene cap with PTFE faced foamed polyethylene liner, clear** | | | | | |
| **11784289** | 60 | 55 x 48 | 53/400 | 40.1 | 24 |
| **11794289** | 125 | 60 x 68 | 58/400 | 40.1 | 24 |
| **11704299** | 250 | 73 x 88 | 70/400 | 53.1 | 24 |
| **11714299** | 500 | 91 x 95 | 89/400 | 69.8 | 12 |
| **11724299** | 1,000 | 95 x 170 | 89/400 | 74.1 | 12 |
| **For general use with white polypropylene cap with PTFE faced foamed polyethylene liner, amber** | | | | | |
| **11583782** | 125 | 60 x 68 | 58/400 | 40.1 | 24 |
| **11734349** | 250 | 73 x 88 | 70/400 | 53.1 | 12 |
| **For general use, bottle only, amber** | | | | | |
| **11503792** | 125 | 60 x 68 | 58/400 | 40.1 | 24 |





# Accessory caps and liners for Fisherbrand Boston round and wide packer bottles

A critical, yet often overlooked component when making your bottle selection is the composition of the bottle cap and especially the cap liner. The liner must not contaminate or be affected by the bottle contents and must be tough enough to be used repeatedly without loss of seal integrity. The guide below provides some further details that may help you in your choice of a suitable cap liner for your Fisherbrand Boston round and wide-mouth packer bottles.

## Selecting a Cap Liner

| Material | Description | Applications |
|---|---|---|
| PTFE-faced foamed polyethylene | PTFE faced foamed polyethylene liners offer the excellent chemical resistance of PTFE with the compressibility and sealing properties of polyethylene foam. | Typical applications: analytical lab samples, high purity chemicals, strong acids, solvents. Excellent for environmental samples, pharmaceuticals and diagnostic reagents. |
| Poly-Seal™ (polycone) | Manufactured from polyethylene (LDPE). The unique cone design provides a wedge type seal that not only seals across the top but also across the inside diameter | Unique problem solving type of liner. This liner is stress crack resistant and offers superior torque retention and excellent sealing characteristics. It is recommended that this liner be tested prior to use for leak seal. |
| Polyvinyl | 1mm polyvinyl film bonded to 1mm HDPE on a #30 white pulp paper backing. Superior to plain pulp paper because it provides an excellent moisture barrier | General purpose: Suitable for wide range of applications. Chemical resistance: Good for mild acids, alkalis, solvents, alcohols, oils and aqueous products. Poor for active hydrocarbons and bleaches |

## Cap, polypropylene with PTFE faced polyethylene liner, white

- Typical applications include analytical laboratory samples, high purity chemicals, strong acids and solvents. Excellent for environmental samples, pharmaceuticals and diagnostic reagents
- PTFE faced foamed polyethylene liner that offers the excellent chemical resistance of PTFE with the compressibility and sealing properties of polyethylene foam
- For Fisherbrand Boston round and wide-mouth packer bottles

| Cat. No | Thread style | Pack qty |
|---|---|---|
| **11548182** | 18/400 | 500 |
| **11558182** | 20/400 | 500 |
| **11568182** | 22/400 | 500 |
| **11578182** | 24/400 | 500 |
| **11588182** | 28/400 | 500 |
| **11598182** | 28/400 | 3,000 |
| **11508192** | 33/400 | 500 |
| **11518192** | 33/400 | 2,100 |
| **11528192** | 38/400 | 500 |
| **11538192** | 43/400 | 500 |
| **11548192** | 45/400 | 500 |
| **11558192** | 48/400 | 500 |
| **11568192** | 53/400 | 500 |
| **11578192** | 58/400 | 500 |
| **11588192** | 63/400 | 288 |
| **11598192** | 70/400 | 144 |
| **11508202** | 83/400 | 144 |
| **11518202** | 89/400 | 144 |



## Caps, Poly-Seal™ (polycone) lined plastic, black

- Unique problem-solving type of liner. This liner is stress crack resistant and offers superior torque retention and excellent sealing characeristics
- Manufactured from LDPE
- Unique cone design provides a wedge type seal that not only seals across the top but also across the inside diameter.
- However, it is recommended the liners be tested for leak seal prior to use
- For Fisherbrand Boston round and wide-mouth packer bottles

| Cat. No | Thread style | Pack qty |
|---|---|---|
| **11518172** | 18/400 | 576 |
| **11528172** | 20/400 | 576 |
| **11538172** | 20/400 | 5,500 |
| **11548172** | 22/400 | 576 |
| **11798699** | 24/400 | 576 |
| **11578172** | 24/400 | 4,200 |
| **11598172** | 28/400 | 3,100 |
| **11718709** | 33/400 | 576 |
| **11518182** | 33/400 | 2,300 |
| **11528182** | 38/400 | 576 |
| **11538182** | 38/400 | 1,600 |



## Caps, polyvinyl lined plastic, white

- General purpose suitable for a wide range of applications
- Good chemical resistance suitable for mild acids, alkalis, solvents, alcohols, oils and aqueous products; poor for active hydrocarbons and bleaches
- 1mm polyvinyl film bonded to 1mm HDPE on a #30 white pulp paper backing
- Superior to plain pulp paper because it provides excellent moisture barrier
- For Fisherbrand Boston round and wide-mouth packer bottles

| Cat. No | Thread style | Pack qty |
|---|---|---|
| **11583792** | 18/400 | 576 |
| **11593792** | 20/400 | 576 |
| **11503802** | 22/400 | 576 |
| **11513802** | 24/400 | 576 |
| **11523802** | 28/400 | 576 |
| **11533802** | 28/400 | 3,000 |
| **11543802** | 33/400 | 576 |
| **11553802** | 33/400 | 2,100 |
| **11563802** | 38/400 | 576 |
| **11583802** | 43/400 | 576 |
| **11593802** | 43/400 | 1,760 |
| **11503812** | 45/400 | 576 |
| **11513812** | 45/400 | 1,520 |
| **11523812** | 48/400 | 576 |
| **11533812** | 53/400 | 288 |
| **11543812** | 53/400 | 1,080 |
| **11558162** | 58/400 | 288 |
| **11568162** | 63/400 | 288 |
| **11788699** | 70/400 | 288 |
| **11588162** | 70/400 | 640 |
| **11598162** | 83/400 | 144 |
| **11508172** | 89/400 | 144 |



## Reagent and media bottles, borosilicate clear glass, wide screw neck

- Graduated and supplied with blue polypropylene cap and pouring ring
- ISO/GL 45 screw thread standard to all sizes, conforms to ISO R1115 and DIN 168
- Chemically resistant and can be repeatedly sterilised to 140°C
- Autoclavable, do not autoclave bottles with a tightly screwed cap

| Cat. No | Capacity, mL | Height, mm (bottle only) | O.D., mm | Wall thickness, mm | Internal neck diameter, mm | Pack qty |
|---|---|---|---|---|---|---|
| **15446113** | 100 | 100 | 56 | 1.5 | 27 | 10 |
| **15456113** | 250 | 138 | 70 | 1.5 | 27 | 10 |
| **15476113** | 500 | 176 | 86 | 1.5 | 27 | 10 |
| **15486113** | 1,000 | 225 | 101 | 1.7 | 27 | 10 |
| **15406123** | 2,000 | 260 | 136 | 2.0 | 27 | 1 |
| **15416123** | 5,000 | 330 | 181 | 2.0 | 27 | 1 |
| **15436123** | 10,000 | 410 | 227 | 2.7 | 27 | 1 |

**Accessories**

**Polypropylene screw caps, with lip seal, autoclavable to 140°C**

| Cat. No | ISO thread GL | Colour | Pack qty |
|---|---|---|---|
| **11527033** | 45 | Blue | 10 |
| **11537033** | 45 | Green | 10 |
| **11547033** | 45 | Yellow | 10 |

**Polypropylene pouring rings, autoclavable to 140°C**

| | | | |
|---|---|---|---|
| **11587033** | 45 | Green | 10 |
| **11597033** | 45 | Yellow | 10 |





## Bottles, soda glass, lightweight, round, screw neck

- ISO range for liquids with fitted 28mm white polypropylene screw cap and PP/SOR liner.
- Type III soda lime glass

| Cat. No | Capacity, mL | Height, mm | Diameter, mm | Thread style | Pack qty |
|---|---|---|---|---|---|
| **Clear** | | | | | |
| **12890874** | 30 | 67 | 35 | R3/28 | 40 |
| **12800884** | 60 | 94 | 38.6 | R3/28 | 40 |
| **12810884** | 100 | 104.8 | 46.1 | R3/28 | 20 |
| **12820884** | 150 | 122.8 | 51.6 | R3/28 | 20 |
| **12840884** | 300 | 151.3 | 65.6 | R3/28 | 20 |
| **12850884** | 500 | 176.8 | 76.8 | R3/28 | 10 |
| **12860884** | 1,000 | 215.6 | 97.5 | R3/28 | 10 |
| **Amber** | | | | | |
| **12337128** | 60 | 94 | 38.6 | R3/28 | 40 |
| **12347128** | 100 | 104.8 | 46.1 | R3/28 | 20 |
| **12810944** | 150 | 122.8 | 51.6 | R3/28 | 20 |
| **12830944** | 500 | 176.8 | 76.8 | R3/28 | 10 |
| **10595924** | 1,000 | 215.6 | 97.5 | R3/28 | 10 |



## Bottles, soda glass, lightweight, round, screw neck, tamper evident cap

- ISO range for liquids with fitted 28mm white polypropylene tamper evident vistop closure and polycone liner
- Type III soda lime glass



| Cat. No | Capacity, mL | Thread style | Height, mm | Diameter, mm | Pack qty |
|---|---|---|---|---|---|
| **Clear** | | | | | |
| **12880884** | 30 | R3/28 | 67.0 | 35.0 | 40 |
| **12890884** | 60 | R3/28 | 94.0 | 38.6 | 40 |
| **12800894** | 100 | R3/28 | 104.8 | 46.1 | 20 |
| **12820894** | 150 | R3/28 | 122.8 | 51.6 | 20 |
| **12830894** | 250 | R3/28 | 142.9 | 61.7 | 20 |
| **12840894** | 300 | R3/28 | 151.3 | 65.6 | 20 |
| **12850894** | 500 | R3/28 | 176.8 | 76.8 | 10 |
| **12860894** | 1,000 | R3/28 | 215.6 | 97.5 | 10 |
| **Amber** | | | | | |
| **12850944** | 15 | R3/28 | 52.0 | 33.0 | 40 |
| **11367114** | 30 | R3/28 | 67.0 | 35.0 | 40 |
| **11377114** | 60 | R3/28 | 94.0 | 38.6 | 40 |
| **12880944** | 100 | R3/28 | 104.8 | 46.1 | 20 |
| **12890944** | 150 | R3/28 | 122.8 | 51.6 | 20 |
| **12800954** | 250 | R3/28 | 142.9 | 61.7 | 20 |
| **12810954** | 500 | R3/28 | 176.8 | 76.8 | 10 |
| **12820954** | 1,000 | R3/28 | 215.6 | 97.5 | 10 |

## Bottles, narrow mouth, HDPE



| Cat. No | Capacity, mL | Dimensions, mm (dia. x h) | Pack qty |
|---|---|---|---|
| **Clear** | | | |
| **11735383** | 30 | 38 x 84 | 72 |
| **11745383** | 60 | 48 x 99 | 72 |
| **11765383** | 250 | 61 x 132 | 72 |
| **11775383** | 500 | 71 x 171 | 48 |
| **11785383** | 1,000 | 91 x 213 | 24 |
| **Translucent** | | | |
| **11907974** | 125 | 48 x 99 | 500 |
| **11937964** | 250 | 61 x 132 | 250 |
| **11997954** | 500 | 71 x 171 | 125 |
| **11977924** | 1,000 | 91 x 213 | 50 |

## Bottles, wide mouth, HDPE



| Cat. No | Capacity, mL | Dimensions, mm (dia. x h) | Pack qty |
|---|---|---|---|
| **Clear** | | | |
| **11775243** | 30 | 36 x 64 | 72 |
| **11785243** | 60 | 38 x 86 | 72 |
| **11795253** | 250 | 62 x 132 | 72 |
| **11775253** | 500 | 74 x 168 | 48 |
| **11745253** | 1,000 | 81 x 201 | 24 |
| **Translucent** | | | |
| **11917974** | 125 | 51 x 99 | 500 |
| **11947964** | 250 | 62 x 132 | 250 |
| **11907964** | 500 | 74 x 168 | 125 |
| **11987924** | 1,000 | 81 x 201 | 50 |

## Bottles, narrow mouth, HDPE, amber



| Cat. No | Capacity, mL | Dimensions, mm (dia. x h) | Pack qty |
|---|---|---|---|
| **11937944** | 125 | 48 x 99 | 72 |
| **11947944** | 250 | 61 x 132 | 72 |
| **11947924** | 500 | 71 x 171 | 48 |
| **11927914** | 1,000 | 91 x 213 | 24 |

## Bottles, wide mouth, HDPE, amber

| Cat. No | Capacity, mL | Dimensions, mm (dia. x h) | Pack qty |
|---|---|---|---|
| **11957944** | 60 | 36 x 64 | 72 |
| **11967944** | 125 | 38 x 86 | 72 |
| **11977944** | 250 | 62 x 132 | 72 |
| **11957924** | 500 | 74 x 168 | 48 |
| **11937914** | 1,000 | 81 x 201 | 24 |



## Bottles, wide mouth, LDPE

| Cat. No | Capacity, mL | Dimensions, mm (dia. x h) | Pack qty |
|---|---|---|---|
| **11957934** | 30 | 36 x 64 | 72 |
| **11967934** | 60 | 38 x 86 | 72 |
| **11977934** | 125 | 51 x 99 | 72 |
| **11987934** | 250 | 62 x 132 | 72 |
| **11937924** | 500 | 74 x 168 | 48 |
| **11967904** | 1,000 | 81 x 201 | 24 |



## Bottles, wide mouth, PP

| Cat. No | Capacity, mL | Dimensions, mm (dia. x h) | Pack qty |
|---|---|---|---|
| **11917934** | 30 | 36 x 64 | 72 |
| **11927934** | 60 | 38 x 86 | 72 |
| **11937934** | 125 | 51 x 99 | 72 |
| **11947934** | 250 | 62 x 132 | 72 |
| **11927924** | 500 | 74 x 168 | 48 |
| **11957904** | 1,000 | 81 x 201 | 24 |



## Bottles, PETG, media

- Sterile and disposable media bottles for reducing the risk of cross contamination.
- An inexpensive and shatter resistant alternative to glass media bottles
- Non-pyrogenic and non-cytotoxic to protect cells
- Moulded in graduations
- Made from clear, lightweight, polyethylene terephthalate copolyester (PETG) providing impact resistance and excellent gas barrier properties
- Closure is high density polyethylene (HDPE)
- Heat-shrink band around cap and bottle neck provides visual assurance of sterility for individual bottles until band is removed

| Cat. No | Capacity, mL | Pack qty |
|---|---|---|
| **12074118** | 125 | 24 |
| **12084118** | 250 | 24 |
| **12064118** | 500 | 12 |
| **12094118** | 1,000 | 12 |



## Bottles, HDPE, Winchester pattern, UN approved



- Tested and certified to meet UN standards for the safe transportation of hazardous materials
- Supplied with tamper evident polypropylene cap. 2.5L and 5L sizes have moulded in carrying/pouring handle

| Cat. No | Capacity, mL | Neck size, mm | Height, mm | Width, mm | Pack qty |
|---|---|---|---|---|---|
| **Clear** | | | | | |
| **10111751** | 2.5 | 45 | 295 | 130 | 4 |
| **10203181** | 5 | 45 | 330 | 170 | 1 |
| **Black** | | | | | |
| **10509741** | 2.5 | 45 | 295 | 130 | 4 |
| **10614382** | 5 | 45 | 330 | 170 | 1 |

## Bottles, carboy, HDPE and PP



**Fisherbrand carboys are ideal for storing and dispensing purified water and a wide variety of lab reagents**

- Space saving rectangular design
- Wide mouth closure
- Available in 9L or 20L, with or without spigot
- Graduated in litres and gallons
- Material:
  - HDPE, able to withstand low temperatures
  - Polypropylene, autoclavable

| Cat. No | Material | Capacity, L | Pack qty |
|---|---|---|---|
| **13458029** | HDPE without spigot | 9 | 1 |
| **13478029** | HDPE without spigot | 20 | 1 |
| **13448029** | PP without spigot | 9 | 1 |
| **13468029** | PP without spigot | 20 | 1 |
| **13438039** | HDPE with spigot | 9 | 1 |
| **13408039** | HDPE with spigot | 20 | 1 |
| **13418039** | PP with spigot | 9 | 1 |
| **13428039** | PP with spigot | 20 | 1 |

## Bottles, polyethylene, jerrycans, narrow neck



- Integrally moulded handle and tamper evident screw cap

| Cat. No | Capacity, mL | Height, mm | Neck O.D., mm | Neck I.D., mm | Pack qty |
|---|---|---|---|---|---|
| **11597433** | 1,000 | 165 | 38 | 125 | 1 |
| **11507443** | 2,500 | 205 | 45 | 150 | 1 |
| **11517443** | 5,000 | 282 | 38 | 189 | 1 |
| **11527443** | 10,000 | 314 | 61 | 230 | 1 |
| **11537443** | 25,000 | 470 | 61 | 295 | 1 |

## Wash bottles, LDPE

- Labelled and colour coded for most commonly used solvents
- Translucent with coloured closure
- Comes with vented 38mm closure to prevent solvent drips
- 500mL capacity

| Cat. No | Label | Closure colour | Pack qty |
|---|---|---|---|
| **11755233** | Bleach | White | 6 |
| **11765233** | Deionised water | Natural | 6 |
| **11775233** | Distilled water | Natural | 6 |
| **11785233** | Ethanol | Natural | 6 |
| **11795233** | Isopropanol | Yellow | 6 |
| **11705243** | Methanol | Green | 6 |
| **11715243** | Saline | Natural | 6 |
| **11725243** | Soap | Natural | 6 |
| **11735243** | Universal | Natural | 6 |
| **11745243** | Water Solvent | Natural | 6 |
| **11765243** | Cleaning | Natural | 6 |
| **11745233** | Acetone | Red | 6 |




## Bottles, LDPE, wash, safety labelled, wide neck, colour coded

- Solvent dispensing
- Leakproof dispensing of your most common solvents
- Easy to read LDPE solvent-resistant printed bottles
- Colour coded for easy identification

| Cat. No | Capacity, mL | Label | Closure colour | Pack qty |
|---|---|---|---|---|
| **11562463** | 500 | Distilled Water | Blue | 6 |
| **11572463** | 500 | Water | Blue | 6 |
| **11582463** | 1,000 | Acetone | Red | 6 |
| **11592463** | 500 | Acetone | Red | 6 |
| **11502473** | 500 | Methanol | Green | 6 |
| **11512473** | 500 | Isopropanol | Yellow | 6 |
| **11522473** | 500 | Toluene | Red | 6 |
| **11532473** | 500 | Deionised water | Blue | 6 |




## Bottles, LDPE, wash, safety labelled, wide neck, Right-to-Know

- For dispensing water and common solvents.
- Labelled with chemical name and formula
- Full colour NFPA diamond
- Coloured caps for enhanced identification
- LDPE bottles with polypropylene caps
- Sodium hypochlorite bottles are white for light protection
- Selected solvents available in 500mL and 1L sizes

| Cat. No | Label | Closure colour | Pack qty |
|---|---|---|---|
| **500mL capacity** | | | |
| **12339185** | Distilled water | Blue | 6 |
| **12349185** | Isopropanol | Yellow | 4 |
| **12359185** | Methanol | Green | 4 |
| **12369185** | Sodium hypochlorite (bleach) | Yellow | 4 |
| **12379185** | Water | Blue | 3 |
| **1L capacity** | | | |
| **12389185** | Isopropanol | Yellow | 3 |
| **12399185** | Methanol | Green | 3 |
| **12309195** | Sodium hypochlorite (bleach) | Yellow | 3 |
| **500mL capacity, Safety-Vented™** | | | |
| **12379195** | Isopropanol | Yellow | 4 |
| **12389195** | Methanol | Green | 4 |
| **12399195** | Sodium hypochlorite (bleach) | Yellow | 4 |



## Bottles, LDPE, wash, round, wide neck, venting, solvent labelled




- Labelled and colour coded for some of the most commonly used solvents
- Unique patented two piece venting assembly prevents build up of solvents within the bottle, eliminating solvent drips from the spout due to internal evaporation
- LDPE bottle with polypropylene closures and venting assembly

NB: Only use with solvents compatible with LDPE refer to Table 7 Chemical Compatibility Chart page 14 to 15

| Cat. No | Capacity, mL | Label | Closure colour | Pack qty |
|---|---|---|---|---|
| **11567153** | 500 | Acetone | Red | 3 |
| **11577153** | 500 | Methanol | Green | 3 |
| **11587153** | 500 | Isopropanol | Yellow | 3 |
| **11507163** | 500 | DIY/custom | Natural | 3 |

## Bottles, LDPE, wash, wide neck, venting, labelled, Right-to-Know




- Pre-printed with chemical name and formula, NFPA section 704 four colour diamond, health hazard, CAS number and suggested protective clothing and equipment
- Wide neck for easy refilling
- Vented to prevent pressure build up, eliminating solvent drips
- Valve allows solvent to be dispensed in both an upright or inverted position
- Leakproof
- Translucent with colour coded polypropylene closures (except sodium hypochlorite bottle, which is white LDPE for light protection between 230nm to 450nm)

| Cat. No | Capacity, mL | Label | Closure colour | Pack qty |
|---|---|---|---|---|
| **12368616** | 500 | Ethanol | Natural | 3 |
| **12359195** | 500 | Assorted pack | Assorted | 6 |
| **12369195** | 500 | Ethanol | Natural | 6 |
| **12309205** | 500 | Isopropanol | Yellow | 6 |
| **12319205** | 500 | Methanol | Green | 6 |
| **11532463** | 250 | Sodium hypochlorite (bleach) | Yellow | 6 |
| **11542463** | 500 | Distilled water | Natural | 6 |
| **11938485** | 1,000 | Acetone | Red | 4 |

## Wash bottle sprayer, Spray-Anywhere™



- Sprayer changes any bottle into a wash bottle, turns any reagent into a spray
- Chemical resistant and virtually unbreakable sprayer is made of polypropylene
- Ideal for hot, cold, aqueous, and solvent-based solutions
- The entire unit may be gas or chemically sterilised and is dishwasher-safe
- A cone-shaped universal adaptor bung fits virtually all glass, plastic, and metal containers, bottles, and flasks
- Fits inside diameters from 25.4mm to 35mm
- Tube diameter is 6.4mm
- Tube length is 813mm

| Cat. No | Description | Pack qty |
|---|---|---|
| **11724356** | Spray-Anywhere™ adjustable sprayer | 1 |

## Wash bottles, adjustable spray



- For hot, cold, aqueous, and solvent based solutions
- Set to fine mist for TLC plates, position it to needle to rinse glassware, and pump a continuous, forceful jet on the big stream position for washing filters
- Instant off-trigger release eliminates messy drips
- Chemical-resistant and virtually unbreakable bottles are made of high-density polyethylene (HDPE), spray head made of polypropylene (PP)
- Can be gas or chemically sterilised and cleaned in the laboratory dishwasher
- Zero contamination
- The double headed 1,000mL sized bottle has a side fill opening to help maintain purity of solutions

| Cat. No | Description | Pack qty |
|---|---|---|
| **11795873** | Double-headed adjustable spray wash bottle 1,000mL | 1 |
| **11714356** | Adjustable spray wash bottle 240mL | 3 |



FISHERBRAND SPOTLIGHT

The new range of Fisherbrand digital bottle rollers features adjustable speeds (ranging from 1 to 80rpm) and adjustable rollers. In addition to this versatility, their anti-corrosive and wear resistant construction enables their use in humid and $CO_2$ environments.

Fisherbrand bottle top dispensers have excellent chemical compatibility and are ideal for use in a wide range of applications.




**Bottle top dispensers, analogue, variable volume**

| Cat. No | Capacity, mL |
|---|---|
| **12867913** | 0.25 - 2.5 |
| **12877913** | 0.5 - 5 |
| **12887913** | 1 - 10 |
| **12897913** | 2.5 - 30 |
| **12807923** | 5 - 60 |
| **12817923** | 10 - 100 |



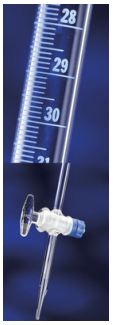
**Bottle and tube roller**
Cat. No 15376617

For further information on the products featured visit www.eu.fishersci.com/go/fisherbrand

# BURETTES

Burettes are typically used in analytical laboratories for titrations; a quantitative chemical analysis which is used to determine the unknown concentration of an identified analyte (usually an acid or a base). Using this method a known quantity of substrate is measured into a flask, and the titrant is added slowly from the burette until the end point is reached and the volume is recorded. An indicator is often used to make the end point visible.
Burettes are manufactured to specified tolerances, designated as Class A or B. Class A burettes are used when an accuracy of up to 0.1% is required and in controlled environments. Class B burettes should be used when accuracy of 0.2% is sufficient in uncontrolled environments. The distinction between these two classes is based principally on the tolerance limits of the nominal volume of the glassware as specified in the relevant British Standards. Normally, for a given volume, the tolerance for Class B is twice that for Class A.

## Burettes, borosilicate glass, single bore, interchangeable TFE stopcock, blue ceramic graduations, Class A, BS-ISO 385: 2005



| Cat. No | Capacity, mL | Graduations, mL | Pack qty |
|---|---|---|---|
| **10450893** | 25 | 0.10 | 1 |
| **10738081** | 50 | 0.10 | 1 |
| **Accessories** | | | |
| **Cat. No** | **Description** | | |
| **12967730** | Burette tip for Fisherbrand burettes borosilicate glass | | 5 |

## Burettes, borosilicate glass, single bore, interchangeable stopcock, BS 846, blue ceramic graduations, Class B, BS-ISO 385: 2005



| Cat. No | Capacity, mL | Graduations, mL | Pack qty |
|---|---|---|---|
| **Glass stopcock** | | | |
| **10448972** | 50 | 0.10 | 1 |
| **PTFE stopcock** | | | |
| **10569771** | 50 | 0.10 | 1 |
| **Accessories** | | | |
| **Cat. No** | **Description** | | |
| **12967730** | Burette tip for Fisherbrand burettes borosilicate glass | | 5 |



FISHERBRAND SPOTLIGHT

Fisherbrand is there for all your titration accessories!

For further information on the products featured visit www.eu.fishersci.com/go/fisherbrand

**Boss head**
Cat. No 11537722

**Rod**
Cat. No 12358139

**Clamp retort stand**
Cat. No 11517722

**Base retort stand**
Cat. No 11528102




**Measuring cylinders**
page 67 to 69

**Wash bottles**
page 40 to 41

**Beakers**
page 27 to 29

# CHROMATOGRAPHY AUTOSAMPLER VIALS AND CLOSURES

The Fisherbrand portfolio of chromatography vials and closures is extensive. They have been designed to provide you with the best fit for your application, sample type and autosampler mode.

## Micro Vials ND8, crimp top and micro, 8mm



Fisherbrand™ clear and amber glass crimp top and microvials are suitable for use with the following autosamplers: Agilent, Beckman, Carlo Erba, CTC, Fisons, Perkin Elmer, Shimadzu, Thermo Scientific and VWR (Merck™)/Hitachi, etc.

| Cat. No | Description | Capacity, mL | Dimensions, mm | Pack qty |
|---|---|---|---|---|
| **Clear Glass** | | | | |
| **11717567** | Round bottom | 0.3 | 5.5 x 31.5 | 1,000 |
| **11782408** | Conical bottom | 0.6 | 7 x 40 | 1,000 |
| **11722408** | Conical bottom | 0.2 | 5.5 x 31.5 | 1,000 |
| **11531374** | Flat bottom | 1.2 | 8.2 x 40 | 100 |
| **Amber glass** | | | | |
| **11541374** | Flat bottom | 1.2 | 8.2 x 40 | 100 |

## Clear aluminium crimp cap



- 8mm with a 4mm centre hole, with silicone white/PTFE red UltraClean seal
- Thickness of the seal 1.3mm

| Cat. No | Thickness | Hardness | Pack qty |
|---|---|---|---|
| **10385862** | 1.3 | 45° shore A | 100 |

## Vials, screw and micro, 8mm (small opening), 8-425 thread and microvials ND8



Fisherbrand™ screw top vials and microvials for use with the following autosamplers: Beckman, CTC, Gilson, Knauer, Shimadzu, Spark, Varian, VWR (Merck™)/Hitachi.

| Cat. No | Description | Capacity, mL | Dimensions, mm | Pack qty |
|---|---|---|---|---|
| **Clear Glass** | | | | |
| **11565874** | Vial, small opening | 2.0 | 11.6 x 32 | 100 |
| **11525884** | Vial, small opening, graduated with marking spot | 2.0 | 11.6 x 32 | 100 |
| **11515884** | Microvial, small opening | 1.1 | 11.6 x 32 | 100 |
| **Amber Glass** | | | | |
| **10560053** | Small opening | 2.0 | 11.6 x 32 | 100 |
| **11595874** | Small opening, graduated with marking spot | 2.0 | 11.6 x 32 | 100 |

## Micro inserts, for 2mL screw vials (small opening)



| Cat. No | Description | Capacity, mL | Dimensions, mm | Pack qty |
|---|---|---|---|---|
| **11762428** | Clear glass, 15mm top | 0.1 | 5 x 31 | 1,000 |
| **11861653** | Clear glass, 9mm top | 0.1 | 5 x 31 | 1,000 |
| **11858951** | Clear glass, with assembled plastic spring | 0.1 | 5 x 29 | 1,000 |
| **11772428** | Clear glass, flat bottom | 0.2 | 5 x 31 | 1,000 |

To check compatibility with your autosampler go to the Product Resources section of the Fisherbrand website, www.eu.fishersci.com/go/fisherbrand, and select 'Compatibility Charts' from the drop down menu



## Caps, screw, polypropylene, 8mm

| Cat. No | Description | Thickness, mm | Hardness | Pack qty |
|---|---|---|---|---|
| **Centre hole, 5.5mm diameter** | | | | |
| **11561354** | Cap ND8 screw polypropylene 8-425 thread black | - | | 100 |
| **11511404** | With red rubber/PTFE beige seal | 1.0 | 45° shore A | 100 |
| **10204902** | With PTFE red/silicone white/PTFE red seal | 1.0 | 45° shore A | 100 |
| **10671763** | With rubber red-orange/TEF transparent seal | 1.3 | 60° shore A | 100 |
| **11591394** | With butyl red/PTFE grey seal | 1.3 | 55° shore A | 100 |
| **11561384** | With white silicone/red PTFE seal, UltraClean | 1.3 | 45° shore A | 100 |
| **11571394** | With silicone white/PTFE red, with slit | 1.3 | 45° shore A | 100 |
| **11581384** | With silicone cream/red PTFE UltraClean | 1.5 | 55° shore A | 100 |
| **Closed top** | | | | |
| **11501404** | With red butyl/grey PTFE seal | 1.3 | 55° shore A | 100 |
| **Septa 8mm** | | | | |
| **11841653** | White silicone/blue PTFE slitted seal | 0.9 | 55° shore A | 1,000 |
| **11872663** | White cream silicone/red PTFE | 1.3 | 45° shore A | 1,000 |
| **2 in 1 kits for Varian autosampler** | | | | |
| **10475792** | 2 in 1 kit consisting of Cat. No 11565874 (page 41) and 11561384 | - | - | 100 |



## Vials, short thread, and microvials, 9mm (wide opening)

Due to their technical geometry, the vials can be used on all common autosamplers such as Agilent, HTA, Shimadzu, Thermo Scientific, Varian, Waters™, etc.

| Cat. No | Description | Capacity, mL | Dimensions, mm | Pack qty |
|---|---|---|---|---|
| **Clear glass** | | | | |
| **10162512** | Short thread vial | 1.5 | 11.6 x 32 | 100 |
| **11585894** | Short thread vial silanized | 1.5 | 11.6 x 32 | 100 |
| **11575884** | Vial, wide opening, graduated with white area for labelling | 1.5 | 11.6 x 32 | 100 |
| **11575894** | Short thread vial with integrated 0.2mL micro insert, graduated with white area for labelling | 0.2 | 11.6 x 32 | 100 |
| **12951011** | Short thread vial with integrated 0.3mL micro insert | 0.3 | 11.6 x 32 | 100 |
| **11515894** | Microlitre short thread | 1.1 | 11.6 x 32 | 100 |
| **11535914** | Microlitre vial | 0.9 | 11.6 x 32 | 100 |
| **11575914** | TopSert™ TPX short thread vial, with integrated 0.2mL glass micro insert | 0.2 | 11.6 x 32 | 100 |
| **Amber glass** | | | | |
| **10080952** | Vial, wide opening, graduated with white area for labelling | 1.5 | 11.6 x 32 | 100 |
| **11595894** | Vial, wide opening, graduated with white area for labelling silanized | 1.5 | 11.6 x 32 | 100 |
| **10145714** | Vial with integrated 0.2mL micro insert with label and filling lines | 0.2 | 11.6 x 32 | 100 |
| **Transparent polypropylene** | | | | |
| **11565964** | Micro vial | 0.3 | 11.6 x 32 | 100 |
| **11585964** | TPX micro vial, crystal clear | 0.3 | 11.6 x 32 | 100 |
| **11545974** | Micro vial | 0.7 | 11.6 x 32 | 100 |
| **11505974** | Vial with filling lines | 1.5 | 11.6 x 32 | 100 |
| **Amber polypropylene** | | | | |
| **10509482** | Vial with filling lines | 1.5 | 11.6 x 32 | 100 |



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## Microvial inserts, for crimp vials, 9mm (wide opening)

| Cat. No | Description | Capacity, mL | Dimensions, mm | Pack qty |
|---|---|---|---|---|
| **Clear Glass** | | | | |
| **11752418** | Micro-insert conical, 15mm top | 0.1 | 6 x 31 | 1,000 |
| **11777557** | Micro-insert conical, 12mm top | 0.1 | 6 x 31 | 1,000 |
| **11805863** | Micro-insert conical, with assembled plastic spring | 0.1 | 5.7 x 29 | 1,000 |
| **11878951** | Micro-insert conical silanised with assembled plastic spring | 0.1 | 5.7 x 29 | 1,000 |
| **11762418** | Micro-insert, flat bottom | 0.2 | 6 x 31 | 1,000 |
| **Polypropylene** | | | | |
| **13445489** | Clear conical, 10mm top with filling lines | 0.1 | 6 x 29 | 1,000 |



## Caps, polypropylene, 9mm, for short thread vials, 6mm centre hole

| Cat. No | Description | Thickness, mm | Hardness | Pack qty |
|---|---|---|---|---|
| **Transparent cap** | | | | |
| **11521424** | With red-orange natural rubber/transparent TEF seal | 1.0 | 60° shore A | 100 |
| **10135044** | With red rubber/beige PTFE seal (approved IM quality) | 1.0 | 45° shore A | 100 |
| **11541424** | With white silicone/red PTFE seal | 1.0 | 55° shore A | 100 |
| **10192702** | With red PTFE/white silicone/red PTFE seal | 1.0 | 45° shore A | 100 |
| **11591424** | With silicone white/PTFE blue, with slit seal | 1.0 | 55° shore A | 100 |
| **Blue cap** | | | | |
| **11541434** | With virgin PTFE seal | 0.2 | 53° shore A | 100 |
| **10520443** | With red-orange rubber/beige PTFE seal | 1.0 | 60° shore A | 100 |
| **11541454** | With white silicone/red PTFE seal (approved IM quality) | 1.0 | 45° shore A | 100 |
| **11581424** | With white silicone/red PTFE UltraClean seal | 1.0 | 55° shore A | 100 |
| **11511434** | With red PTFE /white silicone/red PTFE seal | 1.0 | 45° shore A | 100 |
| **11797567** | With white silicone/blue PTFE seal, with slit | 1.0 | 55° shore A | 1,000 |
| **10004604** | With white silicone/blue PTFE seal, pre-cut | 1.0 | 55° shore A | |
| **10088322** | With silicone white/red PTFE UltraClean Seal | 1.0 | 55° shore A | 100 |
| **10617625** | With nat.rubber red-orange/TEF transparent seal | 1.0 | 60° shore A | 100 |
| **Red cap** | | | | |
| **11571434** | With white silicone/red PTFE UltraClean seal | 1.0 | 55° shore A | 100 |
| **11581434** | With white silicone/blue PTFE seal, with slit | 1.0 | 55° shore A | 100 |
| **Black cap** | | | | |
| **11501454** | With silicone white/blue PTFE seal with slit | 1.0 | 55° shore A | 100 |
| **11581444** | With silicone white/red PTFE UltraClean seal | 1.0 | 55° shore A | 100 |
| **Green cap** | | | | |
| **11591434** | With silicone white/red PTFE UltraClean seal | 1.0 | 55° shore A | 100 |
| **11521454** | With silicone white/blue PTFE seal with slit | 1.0 | 55° shore A | 100 |
| **Yellow cap** | | | | |
| **11541444** | With silicone white/red PTFE UltraClean seal | 1.0 | 55° shore A | 100 |
| **Magnetic cap** | | | | |
| **11571454** | With silicone white/red PTFE UltraClean seal | 1.0 | 55° shore A | 100 |
| **UltraBond seals** | | | | |
| **10264992** | Black cap with silicone white/ red PTFE seal | 1.3 | 45° shore A | 100 |
| **10418092** | Blue cap with silicone beige/ white seal PTFE | 1.3 | 45° shore A | 100 |
| **10122612** | Blue cap with silicone beige/ white PTFE seal with slit | 1.3 | 45° shore A | 100 |



## HPLC/GC certified vial kit short thread, 9mm, wide opening

- Each batch of HPLC and GC-certified kits is tested on 15 critical parameters
- These HPLC and GC certified kits are delivered completely shrink-wrapped for reasons of security, purity and transport safety, for total end-user confidence
- Each kit contains 100 vials and 100 caps with seals



| Cat. No | Description | Capacity, mL | Dimensions | Hardness | Pack qty |
|---|---|---|---|---|---|
| **Clear glass** | | | | | |
| **13429748** | With labelling area and filling lines include UltraClean Seal blue centre hole, silicone white/PTFE red (1.0 mm thickness) | 1.5 | 11.6 x 32 | 55° shore A | 100 |
| **12990861** | Vial pre-screwed with PP blue cap 6mm, centre hole silicone white/PTFE blue with slit (1.0mm thickness) | 1.5 | 11.6 x 32 | 55° shore A | 100 |
| **Amber glass** | | | | | |
| **13439748** | With labelling area and filling lines include UltraClean Seal blue centre hole, silicone white/PTFE red (1.0 mm thickness) | 1.5 | 11.6 x 32 | 55° shore A | 100 |

## Special kit 2-in-1 with short thread wide opening vials, 6mm centre hole cap and seal

- Each kit contains 100 vials and 100 seals



| Cat. No | Description | Capacity, mL | Dimensions | Pack qty |
|---|---|---|---|---|
| **Clear glass** | | | | |
| **12970881** | Kit: with labelling area and filling lines, with PP blue cap silicone white/PTFE blue (kit consists of 11575884 and 11521434) | 1.5 | 11.6 x 32 | 100 |
| **11860972** | Kit: with labelling area and filling lines, with 9mm UltraBond PP short thread cap, blue, centre hole, with silicone beige/PTFE white seal (kit consists of 11575884 and 10122612) | 1.5 | 11.6 x 32 | 100 |
| **11787497** | Kit: with PP short thread cap blue, 6mm centre hole with silicone white/PTFE red seal | 1.5 | 11.6 x 32 | |
| **15124649** | Kit: wide opening with PP short thread cap blue, 6mm centre hole with silicone white/PTFE blue seal with slit | 1.5 | 11.6 x 32 | 100 |
| **12951251** | Kit: with PP short thread cap transparent, 6mm centre hole UltraClean silicone white/PTFE red seal | 1.5 | 11.6 x 32 | 100 |
| **12950891** | Kit: with 9mm UltraBond PP short thread cap, blue, centre hole silicone beige/PTFE white seal with slit | 1.5 | 11.6 x 32 | 100 |
| **Amber glass** | | | | |
| **11395991** | Kit: with labelling area and filling lines, with transparent PP cap UltraClean silicone white/PTFE red seal (kit consists of 10080952 and 11541424) | 1.5 | 11.6 x 32 | 100 |
| **12570186** | Kit: with labelling area and filling lines, with 9mm UltraBond PP short thread cap, blue, centre hole, with silicone beige/PTFE white seal (kit consists of 10080952 and 10122612) | 1.5 | 11.6 x 32 | 100 |

## Vials, screw, 2mL, 10mm (wide opening) ND10

Fisherbrand™ 10-425 screw top vials are ideal for use with the following autosamplers: Jasco, Perkin Elmer, Shimadzu, Varian, Waters™.



| Cat. No | Description | Capacity, mL | Dimensions, mm | Pack qty |
|---|---|---|---|---|
| **Clear glass** | | | | |
| **11511474** | Wide opening | 1.5 | 11.6 x 32 | 100 |
| **10521593** | Wide opening, graduated with marking spot and filling lines | 1.5 | 11.6 x 32 | 100 |
| **Amber glass** | | | | |
| **11531474** | Wide opening, graduated with marking spot and filling lines | 1.5 | 11.6 x 32 | 100 |

## Caps, screw, black, polypropylene, 10mm, with 7mm centre hole



| Cat. No | Description | Thickness, mm | Hardness | Pack qty |
|---|---|---|---|---|
| **11561474** | With white silicone/red PTFE UltraClean seal | 1.3 | 45° shore A | 100 |
| **11581474** | With white silicone/blue PTFE seal, with slit | 1.5 | 55° shore A | 100 |
| **10051132** | With white silicone/beige PTFE seal | 1.5 | 45° shore A | 1,000 |

## Vials, crimp top and micro-insert, 11mm (wide opening) ND11

Fisherbrand amber and clear glass crimp top and micro vials, suitable for use with the following autosamplers: Agilent, Carlo Erba, CTC, Dani, Fisons, Gerstel, Jasco, Perkin Elmer, Shimadzu, Spark, Thermo Scientific and Varian.



| Cat. No | Description | Capacity, mL | Dimensions, mm | Pack qty |
|---|---|---|---|---|
| **Clear glass** | | | | |
| **10326042** | Crimp vial, wide opening | 1.5 | 11.6 x 32 | 100 |
| **11535884** | Wide opening, graduated with marking spot | 1.5 | 11.6 x 32 | 100 |
| **11565894** | Crimp vial with integrated 0.2mL micro insert, graduated with marking spot | 0.2 | 11.6 x 32 | 100 |
| **12672465** | Snap/crimp vial with integrated micro insert | 0.3 | 11.6 x 32 | 100 |
| **11505894** | Microvial | 1.1 | 11.6 x 32 | 100 |
| **11505884** | Microvial, conical bottom | 1.1 | 11.6 x 32 | 100 |
| **11545914** | Total microlitre snap/crimp ring vial | 0.3 | 11.6 x 32 | 100 |
| **11865813** | Microvial, conical bottom | 0.9 | 10 x 32 | 1,000 |
| **11585914** | TopSert™ TPX snap ring vial with integrated 0.2mL micro insert | 0.2 | 11.6 x 32 | 100 |
| **11505924** | TopSert™ TPX snap ring vial with integrated 0.2mL micro insert Silanized | 0.2 | 11.6 x 32 | 100 |
| **Amber glass** | | | | |
| **11545884** | Amber glass, wide opening, graduated with marking spot | 1.5 | 11.6 x 32 | 100 |
| **10678005** | Crimp neck vial with integrated 0.2mL micro insert with label and filling lines | 0.2 | 11.6 x 32 | 100 |

To check compatibility with your autosampler go to the Product Resources section of the Fisherbrand website, www.eu.fishersci.com/go/fisherbrand, and select 'Compatibility Charts' from the drop down menu



## Vials, crimp top, 11mm (small opening)



| Cat. No | Description | Capacity, mL | Dimensions, mm | Pack qty |
|---|---|---|---|---|
| **Clear glass** | | | | |
| **10081022** | Crimp vial clear glass | 1.5 | 11.6 x 32 | 100 |

## Caps, crimp, aluminium, 11mm with 5.5mm centre hole



| Cat. No | Description | Thickness, mm | Hardness | Pack qty |
|---|---|---|---|---|
| **Clear aluminium cap lacquered** | | | | |
| **10457692** | Clear cap with nat. red-orange/TEF rubber transparent Seal | 1.0 | 60° shore A | 100 |
| **11595864** | With red rubber/PTFE seal | 1.0 | 45° shore A | 100 |
| **11551494** | With red PTFE/white silicone/red PTFE seal | 1.0 | 45° shore A | 100 |
| **11545864** | With red-orange natural rubber/transparent TEF seal | 1.3 | 60° shore A | 100 |
| **10264612** | With silicone white/PTFE red UltraClean seal | 1.3 | 45° shore A | 100 |
| **10274802** | With silicone white/PTFE blue seal, cross-slitted | 1.5 | 55° shore A | 100 |
| **Blue aluminium cap lacquered** | | | | |
| **11515864** | With silicone white/red PTFE UltraClean | 1.3 | 45° shore A | 100 |
| **11894870** | With nat. rubber red-orange/butyl red/TEF transparent | 1.0 | 45° shore A | 1,000 |
| **10204712** | With nat.red-orange Rubber/ butyl red/ TEF transparent | 1.0 | 45° shore A | 1,000 |
| **10162562** | Roll grove, with PTFE virginal septa | 0.25 | 53° shore A | 1,000 |
| **11585864** | With PTFE grey/butyl red/PTFE grey seal | 1.3 | 55° shore A | 1,000 |
| **Green aluminium cap lacquered** | | | | |
| **11591494** | With nat. rubber red-orange/butyl red/TEF transparent | 1.0 | 45° shore A | 100 |
| **Red aluminium cap lacquered** | | | | |
| **11501504** | With nat. rubber red-orange/butyl red/TEF transparent | 1.0 | 45° shore A | 100 |
| **Gold aluminium cap lacquered** | | | | |
| **11521504** | With nat. rubber red-orange/butyl red/TEF transparent | 1.0 | 45° shore A | 100 |

## Magnetic cap, crimp, magnetic, 11mm, 5mm centre hole



- For CTC Pal+Thermo Scientific TriPlus autosampler

| Cat. No | Description | Thickness, mm | Hardness | Pack qty |
|---|---|---|---|---|
| **11531504** | With white silicone/red PTFE seal | 1.3 | 45° shore A | 100 |
| **11541504** | With red PTFE/white silicone/red PTFE seal | 1.0 | 45° shore A | 100 |



## Vials, snap ring, 11mm (wide opening)

Clear and amber glass Fisherbrand™ snap ring and microvials are suitable for use with the following autosamplers: Agilent, CTC, Dani, Dionex, Jasco, Shimadzu, Spark, Thermo Scientific, Varian, VWR (Merck™)/Hitachi, Waters™.

| Cat. No | Description | Capacity, mL | Dimensions, mm | Pack qty |
|---|---|---|---|---|
| **Clear Glass** | | | | |
| **11525894** | Clear glass, wide opening | 1.5 | 11.6 x 32 | 100 |
| **11535894** | Clear glass, wide opening, graduated with marking spot | 1.5 | 11.6 x 32 | 100 |
| **Clear PP/TPX** | | | | |
| **11575964** | PP transparent micro vial | 0.3 | 11.6 x 32 | 100 |
| **11595964** | TPX crystal micro vial | 0.3 | 11.6 x 32 | 100 |
| **10705203** | PP transparent micro vial | 0.7 | 11.6 x 32 | 100 |
| **Amber glass** | | | | |
| **11545894** | Amber glass, wide opening, graduated with marking spot | 1.5 | 11.6 x 32 | 100 |

## Seals, snap ring, polyethylene, 11mm with 6mm centre hole

- Soft caps are more convenient in handling (pushing on/removal), however, they are less tight-fitting than hard caps
- Snap ring cap with the design of a crimp cap; therefore suitable for robotic handling

| Cat. No | Description | Thickness, mm | Hardness | Pack qty |
|---|---|---|---|---|
| **Transparent cap, soft cap version** | | | | |
| **10516655** | With red-orange natural rubber/transparent TEF seal | 1.0 | 60° shore A | 100 |
| **10658205** | With red rubber/ beige PTFE seal | 1.0 | 45° shore A | 100 |
| **10014224** | With white silicone/blue PTFE seal, with cross-slit | 1.0 | 55° shore A | 100 |
| **10195474** | With white silicone/red PTFE UltraClean seal | 1.3 | 45° shore A | 100 |
| **Transparent cap, hard cap version** | | | | |
| **11702428** | With red-orange natural rubber/transparent TEF seal | 1.0 | 60° shore A | 100 |
| **11545934** | With white silicone/red PTFE Seal UltraClean | 1.3 | 45° shore A | 100 |
| **10631793** | With PTFE red/Silicone white/PTFE red | 0.1 | 45° shore A | 100 |
| **10192172** | With white silicone/blue PTFE seal, with cross-slit | 0.1 | 55° shore A | 100 |
| **Blue cap, soft cap version** | | | | |
| **10421245** | With red-orange natural rubber/transparent TEF seal | 1.0 | 60° shore A | 100 |
| **11595944** | With red rubber/PTFE seal (IM quality) | 1.0 | 45° shore A | 100 |
| **10004754** | With white silicone/blue PTFE seal, with cross-slit | 1.0 | 55° shore A | 100 |
| **10369694** | With white silicone/red PTFE UltraClean seal | 1.3 | 45° shore A | 100 |
| **Blue cap, hard cap version** | | | | |
| **10355962** | With silicone white/PTFE red UltraClean | 1.3 | 45° shore A | 100 |
| **11595934** | With white silicone/blue PTFE seal, with cross-slit | 1.0 | 55° shore A | 100 |

## Vials, screw, 4mL, 13mm opening ND13

Fisherbrand™ 4mL screw vials are ideal for use with the following autosamplers: Dionex, Shimadzu, Spark, Varian, VWR Merck™/Hitachi, Waters™ (Wisp 48 position carousel).



| Cat. No | Description | Capacity, mL | Dimensions, mm | Pack qty |
|---|---|---|---|---|
| **Clear glass** | | | | |
| **10571013** | Clear, 1st hydrolytic class glass | 4 | 14.7 x 45 | 100 |
| **11576044** | Clear glass, 1st hydrolytic class, graduated, with white area for marking | 4 | 14.7 x 45 | 100 |
| **Amber glass** | | | | |
| **11556044** | Amber, 1st hydrolytic class glass | 4 | 14.7 x 45 | 100 |
| **11586044** | Amber, 1st hydrolytic class glas | 4 | 14.7 x 45 | 100 |

## Caps, screw, black, polypropylene, 13mm



| Cat. No | Description | Capacity, mL | Hardness | Pack qty |
|---|---|---|---|---|
| **8.5mm centre hole** | | | | |
| **10531593** | With red-orange natural rubber/transparent TEF seal | 1.3 | 60° shore A | 100 |
| **10010922** | With cream silicone/red PTFE seal | 1.5 | 55° shore A | 100 |
| **Closed top** | | | | |
| **11506054** | With red-orange natural rubber/transparent TEF seal | 1.3 | 60° shore A | 100 |
| **12911221** | With red butyl/grey PTFE seal | 1.3 | 55° shore A | 100 |
| **11536054** | With cream silicone/red PTFE seal | 1.5 | 55° shore A | 100 |
| **Closed cap** | | | | |
| **11506044** | Closed PP black screw cap | N/A | - | 100 |

## Vials, shell, 1mL, 2mL and 4mL

Clear and amber Fisherbrand™ shell vials are suitable for use with Alcott, Gilson, Shimadzu and Waters™ (Wisp 96 and 48 position carousel) autosamplers.



| Cat. No | Capacity, mL | Dimensions, mm | Pack qty |
|---|---|---|---|
| **Clear glass with transparent polyethylene plug** | | | |
| **10145424** | 1.0 (for Waters™ Wisp 96 Pos. Carousel, Shimadzu) | 8.2 x 40 | 100 |
| **11555914** | 2.0 (for various instruments) | 11.6 x 31.5 | 100 |
| **11516074** | 4.0 (for Waters™ Wisp 48 Pos. Carousel) | 14.65 x 44.6 | 100 |
| **Amber glass with transparent polyethylene plug** | | | |
| **10506075** | 1.0 (for Waters™ Wisp 96 Pos. Carousel, Shimadzu) | 8.2 x 40 | 100 |
| **11565914** | 2.0 (for various instruments) | 11.6 x 31.5 | 100 |
| **10455982** | 4.0 (or Waters™ Wisp 48 Pos. Carousel) | 14.65 x 44.6 | 100 |

## Vials, precision thread, 18mm opening, headspace

Precision thread headspace vials are compatible with CTC PAL, Varian, Gerstel, Atas, Shimadzu and Agilent autosamplers.



| Cat. No | Description | Capacity, mL | Dimensions, mm | Pack qty |
|---|---|---|---|---|
| **Clear 1st hydrol. class glass** | | | | |
| **11506114** | Precision thread headspace vial, clear glass, round bottom | 10 | 22.5 x 46 | 100 |
| **12941221** | Precision thread headspace vial, clear glass, round bottom | 20 | 22.5 x 75.5 | 100 |
| **Amber 1st hydrol. class glass** | | | | |
| **11526114** | Precision thread headspace vial, amber glass, round bottom | 10 | 22.5 x 46 | 100 |
| **12951221** | Precision thread headspace vial, amber glass, round bottom | 20 | 22.5 x 75.5 | 100 |

## Black PP screw closed-top cap 18mm

| Cat. No | Septa material | Thickness, mm | Pack qty |
|---|---|---|---|
| **10590623** | Closed top PP screw cap black butyl red/ PTFE grey | 1.6 | 100 |

## Caps, screw, magnetic, precision thread, for headspace vials, 18mm



| Cat. No | Septa material | Thickness, mm | Hardness | Pack qty |
|---|---|---|---|---|
| **8mm centre hole, silver** | | | | |
| **12961221** | White silicone/red PTFE UltraClean | 1.3 | 45° shore A | 100 |
| **12971221** | Transparent blue silicone/white PTFE Ultra-Clean | 1.3 | 45° shore A | 100 |
| **12981221** | White silicone/blue PTFE UltraClean | 1.5 | 55° shore A | 100 |
| **10729264** | Red butyl/grey PTFE | 1.6 | 55° shore A | 100 |
| **Closed top, silver** | | | | |
| **12901231** | White silicone/red PTFE UltraClean | 1.3 | 45° shore A | 100 |
| **12911231** | Red butyl/grey PTFE | 1.6 | 55° shore A | 100 |

To check compatibility with your autosampler go to the Product Resources section of the Fisherbrand website, www.eu.fishersci.com/go/fisherbrand, and select 'Compatibility Charts' from the drop down menu





## Vials, crimp, 20mm opening, headspace

| Cat. No | Description | For use with | Capacity, mL | Dimensions, mm | Pack qty |
|---|---|---|---|---|---|
| **Clear 1st hydrol. class glass** | | | | | |
| **10192652** | Headspace vial, crimp, clear glass, flat bottom | Varian | 5 | 20 x 38 | 100 |
| **10663303** | Headspace vial, crimp, clear glass, round bottom | Perkin Elmer | 5 | 22 x 38.2 | 100 |
| **11520545** | Headspace vial, crimp, clear glass, flat bottom | Varian | 10 | 20 x 54.5 | 100 |
| **10681033** | Headspace vial, DIN-crimp, clear glass, round bottom | Carlo Erba, CTC, Fisons, Varian (CP) | 10 | 22.5 x 46 | 100 |
| **10680843** | Headspace vial, DIN-crimp, clear glass, long neck, flat bottom | Carlo Erba, Dani, Fisons, Agilent | 10 | 22.5 x 46 | 100 |
| **10080822** | Headspace vial, crimp, clear glass, round bottom | Perkin Elmer, Tekmar | 20 | 23 x 75.5 | 100 |
| **10152512** | Headspace vial, crimp, clear glass, flat bottom, graduated, with marking spot | Perkin Elmer, Tekmar | 20 | 23 x 75.5 | 100 |
| **12971231** | Headspace vial, DIN-crimp, clear glass, long neck, flat bottom | Carlo Erba, Dani, Fisons, Agilent | 20 | 22.5 x 75.5 | 100 |
| **10070952** | Headspace vial, DIN-crimp, clear glass, long neck, round bottom | CTC PAL (Varian, Gerstel, Atas, Shimadzu) + TriPlus HS) | 20 | 22.5 x 75.5 | 100 |
| **10510323** | Headspace SPME vial, special crimp neck | CTC Pal | 20 | 22.5x75.5 | 100 |
| **12990951** | Headspace vial rounded bottom with screw thread 18mm | Perkin Elmer | 20 | 23x75.5 | 100 |
| **11530535** | Other vial, crimp, clear glass, flat bottom | - | 50 | 31 x 101 | 100 |
| **Amber 1st hydrol. class glass** | | | | | |
| **10195012** | Headspace vial, DIN-crimp, amber glass, round bottom | Carlo Erba, CTC, Fisons, Varian (CP) | 10 | 22.5 x 46 | 100 |
| **12981241** | Headspace vial, crimp, amber glass, round bottom | Perkin Elmer, Tekmar | 20 | 23 x 75.5 | 100 |
| **12910991** | Headspace vial, DIN-crimp, amber glass, long neck, round bottom | CTC PAL (Varian, Gerstel, Atas, Shimadzu) + TriPlus HS) | 20 | 22.5 x 75.5 | 100 |

## Septa and stopper 20mm.

| Cat. No | Description | Thickness | Hardness | Pack qty |
|---|---|---|---|---|
| **11825020** | Moulded septa butyl/PTFE grey | 3.0 | 50° shore A | 1,000 |
| **11500555** | Butyl injection stopper rec. by PerkinElmer | - | 55° shore A | 1,000 |

To check compatibility with your autosampler go to the Product Resources section of the Fisherbrand website, www.eu.fishersci.com/go/fisherbrand, and select 'Compatibility Charts' from the drop down menu



## Caps, crimp, aluminium, 20mm, headspace

| Cat. No | Description | Septa material | Thickness, mm | Hardness | Pack qty |
|---|---|---|---|---|---|
| **12991231** | Aluminium cap, plain, 10mm centre hole | Chloro-butyl septa, non-PTFE laminated | 3.0 | 55° shore A | 100 |
| **12901241** | Headspace cap, clear, lacquered | Chloro-butyl septa, non-PTFE laminated | 3.0 | 55° shore A | 100 |
| **11510515** | Magnetic cap, gold, 8mm centre hole | Chloro-butyl septa, non-PTFE laminated | 3.0 | 55° shore A | 100 |
| **10112372** | Aluminium cap, plain, 10mm centre hole | Pharma-Fix bromo-butyl/grey PTFE septa, all PTFE laminated | 3.0 | 50° shore A | 100 |
| **12921241** | Headspace cap, clear lacquered | Pharma-Fix bromo-butyl/grey PTFE septa, all PTFE laminated | 3.0 | 50° shore A | 100 |
| **10182174** | Magnetic cap, gold, 5mm centre hole | Bromo-butyl/grey PTFE | 3.0 | 50° shore A | 1,000 |
| **11520515** | Magnetic cap, gold, 8mm centre hole | Pharma-Fix septa, bromo-butyl/grey PTFE septa, all PTFE laminated | 3.0 | 50° shore A | 100 |
| **10500633** | Aluminium cap, plain, 10mm centre hole | With Pharma-Fix butyl/PTFE laminated septa | 3.0 | 50° shore A | 100 |
| **10090772** | Headspace cap, clear, lacquered | With Pharma-Fix bromo-butyl/PTFE laminated septa | 3.0 | 50° shore A | 100 |
| **10739834** | Aluminium cap, plain, 10mm centre hole | Transparent blue silicone/white PTFE UltraClean, all PTFE laminated | 3.0 | 45° shore A | 100 |
| **12951241** | Headspace cap, clear, lacquered | Transparent blue silicone/white PTFE UltraClean, all PTFE laminated | 3.0 | 45° shore A | 100 |
| **10172272** | Magnetic cap, gold, 8mm centre hole | Transparent blue silicone/transparent PTFE UltraClean, all PTFE laminated | 3.0 | 45° shore A | 100 |
| **10472804** | Magnetic cap, gold, 5mm centre hole | Silicone blue transparent/PTFE transparent UltraClean | 3.0 | 45° shore A | 1,000 |
| **11540515** | Magnetic cap, gold, 8mm centre hole for SPME-Vial for CTC | Silicone white/ thin casted PTFE blue UltraClean | 1.5 | 55° shore A | 100 |
| **10617445** | Magnetic bimetal cap, red, 8mm centre hole | Transparent blue silicone/transparent PTFE UltraClean, all PTFE laminated | 3.0 | 45° shore A | 100 |
| **11590505** | Aluminium cap, plain, 10mm centre hole | White silicone/beige PTFE, all PTFE laminated (HT quality) | 3.2 | 45° shore A | 1,000 |
| **11580505** | Headspace cap, clear, lacquered | White silicone/beige PTFE (HT quality), all PTFE laminated | 3.2 | 45° shore A | 1,000 |
| **10623113** | Aluminium cap, plain 10mm, centre hole | Silicone white/aluminium foil silver | 3.0 | 50° shore A | 100 |
| **10102182** | Headspace cap, clear lacquered, centre hole | Silicone white/aluminium foil silver | 3.0 | 50° shore A | 100 |



## Vials, screw, 24mm opening, EPA ND24

- EPA vials, 1st hydrol. class glass, are for use with Agilent, Dionex, Shimadzu, Tekmar, Thermo, Varian autosamplers

| Cat. No | Capacity, mL | Dimensions, mm | Pack qty |
|---|---|---|---|
| **Clear glass** | | | |
| **10000782** | 20 | 27.5 x 57 | 100 |
| **10758874** | 30 | 27.5 x 72.5 | 100 |
| **10465982** | 40 | 27.5 x 95 | 100 |
| **11540585** | 60 | 27.5 x 140 | 100 |
| **Amber glass** | | | |
| **10458082** | 20 | 27.5 x 57 | 100 |
| **11510585** | 30 | 27.5 x 72.5 | 100 |
| **11530585** | 40 | 27.5 x 95 | 100 |
| **11550585** | 60 | 27.5 x 140 | 100 |





## EPA vials pre-screwed with seal, 24mm

| Cat. No | Description | Dimension | Septa material | Thickness, mm | Hardness | Pack qty |
|---|---|---|---|---|---|---|
| **12970991** | Clear glass vial 40mL | 27.5 x 95mm | Natural silicone/beige PTFE (EPA quality) | 3.2 | 45° shore A | 100 |
| **11510595** | Clear glass vial 40mL | 27.5 x 95mm | White UltraBond cap centre hole, white silicone/beige PTFE | 3.2 | 45° shore A | 100 |

## Caps, screw, polypropylene, 24mm, UltraBond™

UltraBond™ caps and septa form an inseparable unit so that the septum liner cannot fall out or be pushed into the vial when being penetrated with a blunt needle. The 100% firm fit is achieved by a patented process without the use of any glue or adhesive but by changing the molecular structure of the surface of the cap and septa

| Cat. No | Description | Septa material | Thickness, mm | Hardness | Pack qty |
|---|---|---|---|---|---|
| **10729454** | White screw cap, 15mm centre hole | Natural silicone/beige PTFE (EPA quality) | 3.2 | 45° shore A | 100 |
| **10132322** | White screw cap, closed top | Natural silicone/beige PTFE (EPA quality) | 3.2 | 45° shore A | 100 |

## Caps, screw, polypropylene, 24mm, assembled

| Cat. No | Description | Septa material | Thickness, mm | Hardness | Pack qty |
|---|---|---|---|---|---|
| **11530595** | White screw cap, 12.5mm, centre hole | Butyl red/PTFE grey | 2.5 | 55° shore A | 100 |
| **10090962** | White screw cap, closed top | Butyl red/PTFE grey | 2.5 | 55° shore A | 100 |
| **10541013** | White screw cap, 12.5mm, centre hole | Silicone white/PTFE beige (EPA quality) | 3.2 | 45° shore A | 100 |
| **10132422** | White screw cap, closed top | Silicone natural/PTFE beige (EPA quality) | 3.2 | 45° shore A | 100 |

## Septa 22mm for 24mm cap

| Cat. No | Septa material | Thickness, mm | Hardness | Pack qty |
|---|---|---|---|---|
| **11787617** | Silicone white/PTFE beige EPA quality | 3.2 | 45° shore A | 1,000 |

## Cap, screw, white polypropylene, 24mm closed top

| Cat. No | Description | Pack qty |
|---|---|---|
| **10759644** | Screw cap white, closed top | 1,000 |

## Crimping tools

- Crimping tools provide a reproducible, secure vial closure
- Easy and convenient handling
- High quality construction for durability and long life
- Painted, plated and coated for maximum corrosion resistance
- Textured handle surface provides an assured grip



| Cat. No | Description | Pack qty |
|---|---|---|
| **11757577** | Crimper for 11mm aluminium caps | 1 |
| **11748276** | Crimper for 13mm aluminium caps | 1 |
| **11550525** | Crimper for 20mm aluminium caps | 1 |
| **11768276** | Decapper for 11mm aluminium caps | 1 |
| **11500535** | Decapper for 20mm aluminium caps | 1 |

For other dimensions contact Fisher Scientific customer service

## Crimpers, stainless steel, cleanroom

- Sterilisable
- No lubricant used
- Non-lacquered stainless steel handles



| Cat. No | Size, mm | Pack qty |
|---|---|---|
| **11757746** | 20 | 1 |

## Vial racks

- Filling visible thanks to transparent acrylic material



| Cat. No | Description | Dimensions, mm | Vial capacity | Diameter, mm | Pack qty |
|---|---|---|---|---|---|
| **11767597** | Acrylic vial rack | 173 x 95 x 20 | 50 | 12 | 1 |

## Vials, screw for storage purposes



| Cat. No | Description | Capacity, mL | Dimension, mm | Pack qty |
|---|---|---|---|---|
| **Clear 1st hydrol. class glass** | | | | |
| **10504463** | 15-425 screw vial | 8 | 16.6 x 61 | 100 |
| **11576064** | 15-425 screw vial | 12 | 18.5 x 66 | 100 |
| **10023672** | 18-400 screw vial | 16 | 20.6 x 71 | 100 |
| **11590545** | 20-400 screw vial | 20 | 22.7 x 86 | 100 |

## Caps, black, polypropylene, 15mm, for screw storage vials



| Cat. No | Description | Thickness | Hardness | Pack qty |
|---|---|---|---|---|
| **10717793** | Screw cap closed top with butyl red/PTFE grey suitable for 15-425 screw vials | 1.6 | 55° shore A | 100 |
| **11546074** | Screw cap closed top with silicone white/PTFE red suitable for 15-425 screw vials | 1.3 | 45° shore A | 100 |
| **12930941** | Screw cap 9mm centre hole with silicone white/ PTFE red suitable for 15-425 screw vials | 1.3 | 45° shore A | 100 |



FISHERBRAND SPOTLIGHT

Fisher Chemical

Identify the appropriate solvent grade for your particular chromatography application from the Fisher Chemical range

## Table 9: Fisher Chemical solvent selection guide

| Chromatography Application | Instrument and Detector Type | Fisher Chemical Solvent Grade |
|---|---|---|
| UHPLC-MS | UHPLC coupled with mass detector | Optima UHPLC-MS |
| High HPLC-MS | LC and UHPLC coupled with mass detector | Optima LC/MS |
| HPLC-MS | LC coupled with mass detector | LC/MS grade |
| UHPLC | UHPLC coupled with UV detector | UHPLC gradient grade |
| High HPLC Gradient | LC gradient grade coupled with UV detector | HPLC advanced grade |
| HPLC Gradient | LC gradient grade coupled with UV detector | HPLC gradient grade |
| HPLC | LC coupled with UV detector | HPLC grade |

To ensure suitability for specific detectors (e.g. ECD & fluorescence) several other application specific solvent grades are also available.

### Achieve maximum performance in liquid chromatography

Research, quality control or routine analysis – whatever the field of activity, our range of solvents meets the challenges of chromatography from HPLC to UHPLC-MS applications. We can supply the type of solvents, blends and reagents you need, in the grades, sizes and packaging that meet your requirements.

For full information on our full range request a copy of our brochure 'Find the perfect chemicals for your Chromatography' at www.eu.fishersci.com/go/fisherbrand



### Fisher Chemical Manufacturing Capabilities

Utilising our chemicals manufacturing sites, we can tailor-make solvents to meet the specifications you provide for your application. Our experience in manufacturing, processing and testing high-purity solvents enables customisation to your specifications. In addition, our dedicated solvent mixing facilities produce high-purity blends specified by our customers.

Take advantage of our long-standing expertise and experience in distillation, processing, testing and packaging high purity solvents to make Fisher Chemical your brand of choice for your chromatography applications.




**Water, HPLC for gradient analysis**
Cat. No 10367171

**Methanol for LC-MS Optima**
Cat. No 10031094

**Acetonitrile for LC-MS Optima**
Cat. No 10001334

For further information visit the Fisher Chemical supplier page on your local Fisher Scientific web site.
To request a copy of our brochure 'Find the perfect chemicals for your Chromatography' www.eu.fishersci.com/go/fisherbrand

# CRYOGENICS

Fisherbrand offers a range of products such as cryogenic vials and cryogenic storage boxes designed to make the long term storage of your samples easier, more retrievable, safer and secure.

## Cryogenic vials, polypropylene

- Sterile - non-autoclavable
- Non-cytotoxic; non-pyrogenic
- Large white writing area
- Graduations in 0.5mL increments

| Cat. No | Description | Capacity, mL | Pack qty |
|---|---|---|---|
| **External thread, self standing** | | | |
| **12942431** | Conical bottom | 1.2 | 1,000 |
| **12952431** | Conical bottom | 2.0 | 1,000 |
| **10858210** | Conical bottom | 5.0 | 1,000 |
| **Internal thread, conical or round style bottom with a star style foot; self standing** | | | |
| **11311675** | Conical bottom | 1.2 | 1,000 |
| **11321675** | Round bottom | 2.0 | 1,000 |
| **11331675** | Round bottom | 5.0 | 1,000 |

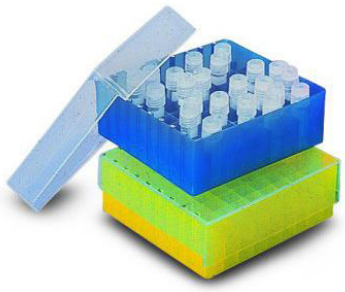



For colour coders for your cryogenic vials refer to page 112.

## Cryoboxes, polypropylene, 81 place

- Store 1.5/2.0mL microtubes or cryogenic vials in polypropylene storage boxes
- Easy open, friction fit lid
- Rack (L x W x H) 130mm x 130mm x 47mm
- Autoclavable

| Cat. No | Colour | Pack qty |
|---|---|---|
| **10273222** | Blue | 5 |
| **10070182** | Pink | 5 |
| **10325002** | Yellow | 5 |
| **10385042** | Orange | 5 |
| **10500203** | Natural | 5 |
| **10050182** | Green | 5 |
| **10243272** | Assorted colours (blue, green, pink, yellow and orange) | 5 |



## Cryoboxes, microcentrifuge, polypropylene, 100 place

- Durable 100 well storage racks feature three point hinges and clasp for secure lid closure
- Hold 1.5mL to 2mL microtubes and cryovials
- User friendly racks feature moulded grid lines on the lid, imprinted coordinates on the bottom of the base and on the box
- Racks measure 141mm x 151mm x 57mm
- Autoclavable.

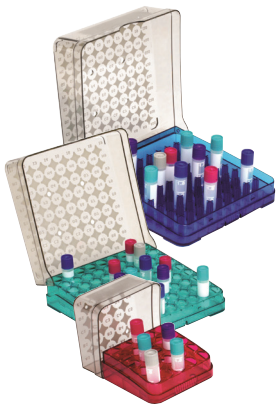
| Cat. No | Description | Pack qty |
|---|---|---|
| **11700344** | Assorted colours (blue, green, purple, yellow and orange) | 5 |



## Cryoboxes, polycarbonate, Arctic Squares™

- Boxes will safely store vials from -196°C to +121°C in mechanical freezers as well as liquid nitrogen
- The forward sloped base, high contrast and printed indexing on the transparent lid enable quick visual identification
- All boxes have vent and draining holes
- Autoclavable at 121°C

| Cat. No | Description | Dimensions, L x D x H, mm | Colour | Pack qty |
|---|---|---|---|---|
| **11938084** | 5 x 5 array for 1.2mL/2mL vials | 76 x 76 x 53 | Red | 8 |
| **11394055** | 9 x 9 array tall boxes for 3mL/5mL vials | 133 x 133 x 96 | Purple | 5 |
| **11998004** | 9 x 9 array for 1.2mL/2mL, vials, includes picking tool | 133 x 133 x 53 | Assorted (red, purple, blue and green) | 4 |
| **11978004** | 10 x 10 array for 1.2mL/2mL, vials, includes picking tool | 133 x 133 x 53 | Blue | 4 |

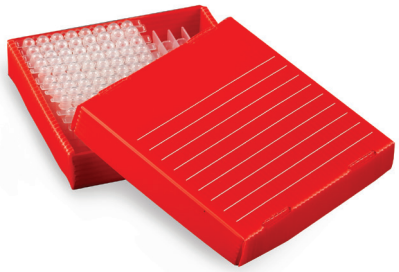


## Cryoboxes, polypropylene, flat-pack

- Cryoboxes are supplied flat-pack eliminating the hassle of stacking and reduces the amount of space needed for storage
- Boxes fit in standard freezer racks
- Easy to assemble
- More durable than cardboard boxes as they are not susceptible to moisture
- Significantly reduces the chance of mould
- Dividers included with the boxes
- Store down to temperatures of -80°C







| Cat. No | Accommodates | Wells | Well diameter, mm | Dimensions, mm (l x w x h) | Colour | Pack qty |
|---|---|---|---|---|---|---|
| **Corrugated polypropylene 0.2/0.5/1.5 to 2.0/5mL** | | | | | | |
| **15316528** | 0.2mL tubes | 144 | 7.9 | 133 x 130 x 30 | Natural | 10 |
| **15326528** | 0.2mL tubes | 144 | 7.9 | 133 x 130 x 30 | Blue | 10 |
| **15336528** | 0.2mL tubes | 144 | 7.9 | 133 x 130 x 30 | Red | 10 |
| **15346528** | 0.2mL tubes | 144 | 7.9 | 133 x 130 x 30 | Purple | 10 |
| **15356528** | 0.5mL tubes | 81 | 12.0 | 133 x 130 x 42 | Natural | 10 |
| **15366528** | 0.5mL tubes | 81 | 12.0 | 133 x 130 x 42 | Blue | 10 |
| **15376528** | 0.5mL tubes | 81 | 12.0 | 133 x 130 x 42 | Red | 10 |
| **15386528** | 0.5mL tubes | 81 | 12.0 | 133 x 130 x 42 | Purple | 10 |
| **15226996** | 1.5/2.0mL tubes | 81 | 12.0 | 133 x 133 x 51 | Natural | 10 |
| **15396528** | 1.5/2.0mL tubes | 81 | 12.0 | 133 x 133 x 51 | Blue | 10 |
| **15306538** | 1.5/2.0mL tubes | 81 | 12.0 | 133 x 133 x 51 | Red | 10 |
| **15316538** | 1.5/2.0mL tubes | 81 | 12.0 | 133 x 133 x 51 | Purple | 10 |
| **15326538** | 5mL tubes | 25 | 22.6 | 133 x 133 x 75 | Natural | 10 |
| **15336538** | 5mL tubes | 25 | 22.6 | 133 x 133 x 75 | Blue | 10 |
| **15346538** | 5mL tubes | 25 | 22.6 | 133 x 133 x 75 | Red | 10 |
| **15356538** | 5mL tubes | 25 | 22.6 | 133 x 133 x 75 | Purple | 10 |
| **Corrugated polypropylene 0.2/0.5/1.5 to 2.0/5mL** | | | | | | |
| **15366538** | 15mL tubes | 36 | 19.8 | 145 x 147 x 120 | Natural | 10 |
| **15376538** | 15mL tubes | 36 | 19.8 | 145 x 147 x 120 | Blue | 10 |
| **15386538** | 15mL tubes | 36 | 19.8 | 145 x 147 x 120 | Red | 10 |
| **15396538** | 15mL tubes | 36 | 19.8 | 145 x 147 x 120 | Purple | 10 |
| **15306548** | 50mL tubes | 16 | 31.6 | 145 x 147 x 120 | Natural | 10 |
| **15316548** | 50mL tubes | 16 | 31.6 | 145 x 147 x 120 | Blue | 10 |
| **15326548** | 50mL tubes | 16 | 31.6 | 145 x 147 x 120 | Red | 10 |
| **15336528** | 50mL tubes | 16 | 31.6 | 145 x 147 x 120 | Purple | 10 |

## Cryoboxes, polystyrene

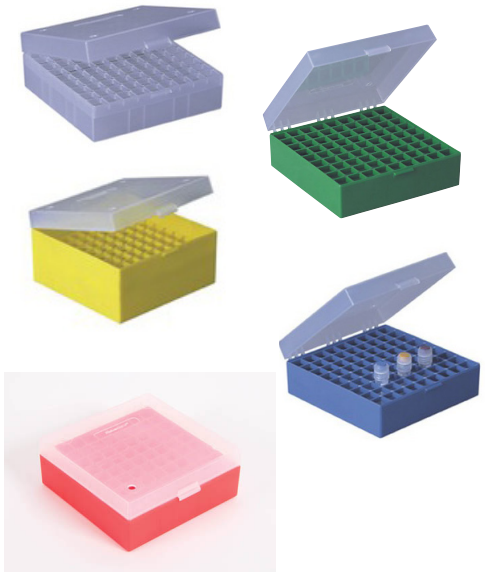
- Two-piece racks are constructed of expanded polystyrene (EPS) foam
- Lightweight microtube racks are ideal for long term studies or tube storage
- Extra spacing between wells allows for easy gripping with fingertips
- Racks stack securely with nesting features on lid and base



| Cat. No | Accommodates | Wells | Dimensions, mm (l x w x h) | Colour | Pack qty |
|---|---|---|---|---|---|
| **11774016** | 1.5/2.0mL tubes | 100 | 336 x 95 x 73 | White | 10 |
| **11948084** | 1.5/2.0mL tubes | 50 | 210 x 110 x 71 | White | 10 |

## Cryoboxes, polypropylene, 81 place, with grid inserts

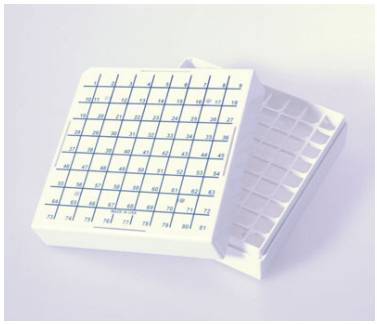
- For sample storage and transportation
- Autoclavable, temperature resistant from -90°C to +121°C
- High quality polypropylene
- Available in natural and various colours
- 81 places, 9 x 9 grid, numerically coded
- Robust hinge with safe snap-on lid
- Stackable for safe transportation
- Drain bores at the bottom for dew liquids
- Removable grid inserts
- Can also be used for larger vessels by removing the grid inserts



| Cat. No | Accommodates | Colour | Pack qty |
|---|---|---|---|
| **Dimensions (l x w x h), 133mm x 133mm x 52mm, 81 place, 9 x 9 grid** | | | |
| **11856893** | 81 x 1.2mL to 2.0mL vials | Natural | 5 |
| **11826903** | 81 x 1.2mL to 2.0mL vials | Yellow | 5 |
| **11836903** | 81 x 1.2mL to 2.0mL vials | Red | 5 |
| **11856903** | 81 x 1.2mL to 2.0mL vials | Blue | 5 |
| **Dimensions (l x w x h), 133mm x 133mm x 75mm, 81 place, 9 x 9 grid** | | | |
| **11866903** | 81 x 3.0mL to 5.0mL vials | Natural | 5 |
| **11876903** | 81 x 3.0mL to 5.0mL vials | Yellow | 5 |
| **11886903** | 81 x 3.0mL to 5.0mL vials | Red | 5 |
| **11896903** | 81 x 3.0mL to 5.0mL vials | Green | 5 |
| **11806913** | 81 x 3.0mL to 5.0mL vials | Blue | 5 |

## Cryoboxes, polycarbonate, 81 place

- Separate lid
- Grid reference printed on lid and base
- Can be used in mechanical freezers and liquid nitrogen dewars
- Storage boxes, printed lid, 81 place, 9 x 9 grid



| Cat. No | Description | Dimensions [l x w x h], mm | Pack qty |
|---|---|---|---|
| **12902431** | Storage box for 1.2mL to 2.0mL vials | 133 x 133 x 52 | 24 |
| **12912431** | Storage box for 5.0mL vials | 133 x 133 x 95 | 24 |
| **11788029** | Storage box for 1.2mL to 2.0mL vials | 133 x 133 x 52 | 4 |
| **11798029** | Storage box for 5.0mL vials | 133 x 133 x 95 | 4 |

## Tube rack and box, polypropylene, adjustable

- Robust, rigid storage box with removable inserts to hold either 15mL or 50mL tubes
- Deep grid wells securely hold tubes upright
- With keyed lid and imprinted grid to locate tubes easily
- Can be used without inserts
- Tubes can be seen through transparent lid and box sides
- Fill with ice and use as a temporary workstation



| Cat. No | Description | Dimensions [l x w x h], mm | Pack qty |
|---|---|---|---|
| **11700634** | Interchangeable modules hold 16 x 15mL or 9 x 50mL tubes | 132 x 132 x 129 | 5 |



FISHERBRAND
SPOTLIGHT

The Fisher Scientific Isotemp™ and Isotemp™ Basic ultra-low temperature (ULT) freezer range combines the highest reliability and superior performance with cost-effective operation and innovative features. These freezers feature an advanced technology platform, refrigeration, microprocessor controls and high-quality construction, delivering reliable sample protection, excellent energy efficiency, and low noise levels.

Fisherbrand also offer a range of Traceable™ Thermometers and Traceable™ Datalogging Thermometers which provides an accurate and reliable record of temperature. Request a copy of our 'Focus on Traceable™ Products' brochure to find out more.




**ULT freezer, 651L capacity**
Cat. No 12609275




**Traceable™ datalogger, Logger-Trac™**
Cat. No 15398754




**Traceable™ refrigerator/freezer thermometer**
Cat. No 11873460

For further information on the products featured visit www.eu.fishersci.com/go/fisherbrand

# CUVETTES

This section introduces the new range of Fisherbrand glass cuvettes, which are available in different materials, designs and capacities. Fisherbrand also offers plastic disposal cuvettes which eliminate the need for washing and cleaning.

## Cuvettes, micro fluorescence, quartz, with PTFE lid and three clear windows

- Reduce reagent use with micro cells
- Quartz windows for transmission from far ultraviolet through the infrared
- Includes: PTFE lid or stopper

| Cat. No | Type | Material | Dimensions, mm | Capacity, µL | Pathlength, mm | Wavelength range, nm | Internal height, mm | Internal width, mm | Pack qty |
|---|---|---|---|---|---|---|---|---|---|
| **15235973** | Micro fluorescence | Quartz | 12.5 x 12.5 x 45 | 100 | 10 | 200 to 2,500 | 8.5 | 2 | 1 |
| **15255973** | Micro fluorescence | Quartz | 12.5 x 12.5 x 45 | 100 | 10 | 200 to 2,500 | 15 | 2 | 1 |
| **15205993** | Micro fluorescence | Quartz | 12.5 x 12.5 x 45 | 45 | 3 | 200 to 2,500 | 8.5 | 3 | 1 |
| **15235993** | Micro fluorescence | Quartz | 12.5 x 12.5 x 45 | 45 | 3 | 200 to 2,500 | 15 | 3 | 1 |
| **15266003** | Micro fluorescence | Quartz | 12.5 x 12.5 x 45 | 12 | 3 | 200 to 2,500 | 8.5 | 1.5 | 1 |
| **15296003** | Micro fluorescence | Quartz | 12.5 x 12.5 x 45 | 12 | 3 | 200 to 2,500 | 15 | 1.5 | 1 |



## Cuvettes, quartz, macro, absorption

- Available in four materials; quartz, optical quartz, special optical glass and optical glass, for a wide range of assay types
- Quartz windows for transmission from far ultraviolet through the infrared
- Glass windows for routine work in ultraviolet region and visible region
- Includes: PTFE lid

| Cat. No | Type | Material | Dimensions, mm | Capacity, µL | Pathlength, mm | Wavelength range, nm | Internal width, mm | Pack qty |
|---|---|---|---|---|---|---|---|---|
| **15255953** | Macro absorption | Quartz | 12.5 x 12.5 x 52 | 350 | 1 | 200 to 2,500 | 10 | 1 |
| **15265953** | Macro absorption | Quartz | 12.5 x 12.5 x 45 | 1,750 | 5 | 200 to 2,500 | 10 | 1 |
| **15266013** | Macro absorption | Quartz | 12.5 x 12.5 x 45 | 300 | 1 | 200 to 2,500 | 10 | 2 |
| **15276013** | Macro absorption | Quartz | 12.5 x 12.5 x 45 | 1,500 | 5 | 200 to 2,500 | 10 | 2 |
| **15286013** | Macro absorption | Quartz | 12.5 x 12.5 x 45 | 3,000 | 10 | 200 to 2,500 | 10 | 2 |
| **15296013** | Macro absorption | Quartz | 12.5 x 12.5 x 45 | 3,000 | 10 | 200 to 2,500 | 10 | 4 |
| **15226023** | Macro absorption | Quartz | 12.5 x 12.5 x 52 | 350 | 1 | 200 to 3,500 | 10 | 2 |
| **15246023** | Macro absorption | Quartz | 12.5 x 12.5 x 45 | 3,000 | 10 | 200 to 3,500 | 10 | 2 |
| **15256023** | Macro absorption | Quartz | 12.5 x 12.5 x 45 | 3,000 | 10 | 200 to 3,500 | 10 | 4 |
| **15266023** | Macro absorption | Special optical glass | 12.5 x 12.5 x 45 | 3,000 | 10 | 320 to 2,500 | 10 | 2 |
| **15276023** | Macro absorption | Optical glass | 12.5 x 12.5 x 45 | 3,000 | 10 | 360 to 2,500 | 10 | 2 |
| **15286023** | Macro absorption | Optical quartz | 12.5 x 12.5 x 45 | 3,000 | 10 | 260 to 2,500 | 10 | 2 |
| **15296023** | Macro absorption | Special optical glass | 12.5 x 12.5 x 45 | 3,000 | 10 | 320 to 2,500 | 10 | 4 |
| **15206033** | Macro absorption | Optical glass | 12.5 x 12.5 x 45 | 3,000 | 10 | 360 to 2,500 | 10 | 4 |
| **15216033** | Macro absorption | Optical quartz | 12.5 x 12.5 x 45 | 3,000 | 10 | 260 to 2,500 | 10 | 4 |



## Cuvettes, semi-micro, absorption, with PTFE lid and stir bar, two clear windows



- Reduce reagent use with micro cells
- Quartz windows for transmission from far ultraviolet through the infrared
- Two clear windows
- Includes: PTFE lid

| Cat. No | Type | Material | Dimensions, mm | Capacity, µL | Pathlength, mm | Wavelength range, nm | Internal width, mm | Pack qty |
|---|---|---|---|---|---|---|---|---|
| **15246013** | Semi-micro absorption | Quartz | 12.5 x 12. 5 x 49.5 | 1,500 | 10 | 200 to 2,500 | 4 | 1 |

## Cuvettes, semi-micro, fluorescence, with PTFE lid and stir bar, four clear windows

- Reduce reagent use with micro cells
- Quartz windows for transmission from far ultraviolet through the infrared
- Four clear windows
- Includes: PTFE lid

| Cat. No | Type | Material | Dimensions, mm | Capacity, µL | Pathlength, mm | Wavelength range, nm | Internal width, mm | Pack qty |
|---|---|---|---|---|---|---|---|---|
| **15256013** | Semi-micro fluorescence | Quartz | 12. 5 x 12.5 x 49.5 | 1,500 | 10 | 200 to 2,500 | 4 | 1 |

## Cuvettes, macro, absorption, with PTFE stopper



- Quartz windows for transmission from far ultraviolet through the infrared
- Includes: PTFE stopper

| Cat. No | Type | Material | Dimensions, mm | Capacity, µL | Pathlength, mm | Wavelength range, nm | Internal width, mm | Pack qty |
|---|---|---|---|---|---|---|---|---|
| **15216023** | Macro absorp-tion | Quartz | 12.5 x 12.5 x 45 | 3,000 | 10 | 200 to 2,500 | 10 | 4 |

## Cuvette, quartz, semi-micro, UV



- Reduce reagent use with semi-micro cells
- Quartz windows for transmission from far ultraviolet through the infrared
- Includes: PTFE lid

| Cat. No | Type | Material | Dimensions, mm | Capacity, µL | Pathlength, mm | Wavelength range, nm | Internal width, mm | Pack qty |
|---|---|---|---|---|---|---|---|---|
| **15226033** | Semi-micro absorption | Quartz | 12.5 x 12.5 x 45 | 1,000 | 10 | 200 to 2,500 | 4 | 2 |
| **15246033** | Semi-micro absorption | Quartz | 12.5 x 12.5 x 45 | 1,000 | 10 | 200 to 2,500 | 4 | 4 |

## Cuvettes, absorption, quartz

- Quartz windows for transmission from far ultraviolet through the infrared
- Includes: PTFE stopper

| Cat. No | Type | Material | Dimensions, mm | Capacity, µL | Pathlength, mm | Wavelength range, nm | Internal width, mm | Pack qty |
|---|---|---|---|---|---|---|---|---|
| **15236033** | Semi-micro absorption | Quartz | 12.5 x 12.5 x 45 | 1,000 | 10 | 200 to 2,500 | 4 | 2 |

## Cuvettes, macro, fluorescence, with PFTE lid, four clear windows

- Reduce reagent use with micro cells
- Quartz windows for transmission from far ultraviolet through the infrared
- Includes: PTFE lid or stopper

| | Cat. No | Type | Material | Dimensions, mm | Capacity, µL | Pathlength, mm | Wavelength range, nm | Internal width, mm | Pack qty |
|---|---|---|---|---|---|---|---|---|---|
| 1 | **15216043** | Macro fluorescence, with lid | Quartz | 12.5 x 12.5 x 45 | 3,000 | 10 | 200 to 2,500 | 10 | 2 |
| | **15296053** | Macro fluorescence, with lid | Quartz | 12.5 x 12.5 x 45 | 3,000 | 10 | 200 to 2,500 | 10 | 4 |
| 2 | **15246043** | Macro fluorescence, with stopper | Quartz | 12.5 x 12.5 x 45 | 3,000 | 10 | 200 to 2,500 | 10 | 2 |







## Cuvettes, absorption, quartz, flow

- Compact size
- Fused-on inlet and outlet tubes
- With two clear windows and two black windows

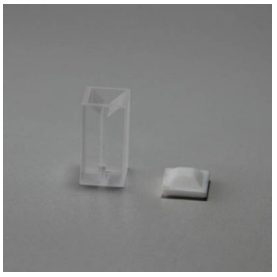
| Cat. No | Type | Material | Dimensions, mm | Capacity, µL | Pathlength, mm | Wavelength range, nm | Internal width, mm | Pack qty |
|---|---|---|---|---|---|---|---|---|
| **15226063** | Compact flow | Quartz | 12.5 x 12.5 x 45 | 750 | 10 | 190 to 2,600 and 2,850 to 3,600 | 6.5 | 1 |
| **15236073** | Compact flow | Quartz | 12.5 x 12.5 x 45 | 450 | 10 | 190 to 2,600 and 2,850 to 3,600 | 4 | 1 |



## Cuvettes, micro, absorption, quartz, with PTFE lid

- Reduce reagent use with micro and ultra micro cells
- Quartz windows for transmission from far ultraviolet through the infrared
- Glass windows for routine work in ultraviolet region and visible region
- Includes: PTFE lid or stopper

| Cat. No | Type | Material | Dimensions, mm | Capacity, µL | Pathlength, mm | Wavelength range, nm | Internal height, mm | Internal width, mm | Pack qty |
|---|---|---|---|---|---|---|---|---|---|
| **15256073** | Two clear windows | Quartz | 12.5 x 12.5 x 25 | 300 | 10 | 200 to 2,500 | - | 2 | 2 |
| **15266083** | Two clear windows | Quartz | 12.5 x 12.5 x 45 | 500 | 10 | 200 to 2,500 | - | 2 | 2 |
| **15216093** | Two clear windows, two black windows | Quartz | 12.5 x 12.5 x 45 | 500 | 10 | 200 to 2,500 | - | 2 | 2 |
| **15246103** | Ultra micro absorption cell | Quartz | 12.5 x 12.5 x 45 | 100 | 10 | 200 to 2,500 | 8.5 | 2 | 1 |
| **15296103** | Ultra micro absorption cell | Quartz | 12.5 x 12.5 x 45 | 100 | 10 | 200 to 2,500 | 15 | 2 | 1 |
| **15216123** | Ultra micro absorption cell | Quartz | 12.5 x 12.5 x 45 | 50 | 10 | 200 to 2,500 | 8,5 | 2 | 1 |
| **15286123** | Ultra micro absorption cell | Quartz | 12.5 x 12.5 x 45 | 50 | 10 | 200 to 2,500 | 15 | 2 | 1 |



## Cuvettes, disposable, polystyrene

- Transparency: approximately 90% between 400nm and 800nm

| Cat. No | Material | Dimensions, mm (w x h) | Capacity, µL | Pathlength, mm | Wavelength range, nm | Pack qty |
|---|---|---|---|---|---|---|
| **11537692** | PS | 12.5 x 45 | 4,000 | 10 | 336 to 850 | 100 |
| **11547692** | PS | 12.5 x 45 | 1,600 | 10 | 336 to 850 | 100 |



## Cuvettes, disposable, PS and PMMA

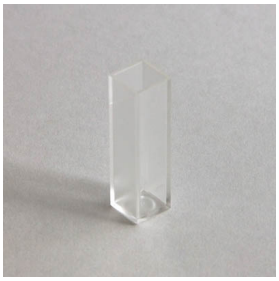
- Disposable 10mm pathlength cuvettes designed for visible and UV/Vis assay
- Moulded-in arrow indicates direction of transmission on standard and semi-micro cuvettes to assure uniformity
- Clear four sided cuvettes are ideal for fluorimetry and nephelometry, as well as spectrophotometry
- Each case contains cuvettes with same mould impression number
- In stackable trays

| Cat. No | Type | Material | Capacity, µL | Pathlength, mm | Wavelength range, nm | Inner pack qty | Pack qty |
|---|---|---|---|---|---|---|---|
| **11682599** | Standard/macro | Polystyrene | 4,000 | 10 | 340 to 750 | 100 | 500 |
| **11602609** | Semi-micro | Polystyrene | 1,500 | 10 | 340 to 750 | 100 | 500 |
| **11954395** | 4 clear sides | Polystyrene | 4,500 | 10 | 340 to 750 | 100 | 500 |
| **11944385** | Standard/macro | Methacrylate | 4,500 | 10 | 285 to 750 | 100 | 500 |
| **11904385** | Semi-micro | Methacrylate | 1,500 | 10 | 285 to 750 | 100 | 500 |
| **11924405** | 4 clear sides | Methacrylate | 4,500 | 10 | 285 to 750 | 100 | 500 |



## Cuvette, UV, polystyrene single use

- Clear cuvette with two windows
- Supplied in a styrofoam tray



| Cat. No | Material | Dimensions, mm (w x h) | Capacity, µL | Pathlength, mm | Wavelength range, nm | Pack qty |
|---|---|---|---|---|---|---|
| **10349334** | PS | 12.5 x 12.5 x 45 | 4,000 | 10 | 220 to 900 | 100 |
| **10594175** | PS | 12.5 x 12.5 x 45 | 1,600 | 10 | 220 to 900 | 100 |

## Cuvette, UV/visible, polystyrene



| Cat. No | Material | Capacity, µL | Pathlength, mm | Wavelength range, nm | Pack qty |
|---|---|---|---|---|---|
| **11837832** | PS | 4,000 | 10 | Visible | 1,000 |
| **11847832** | PS | 1,600 | 10 | Visible | 1,000 |
| **11817922** | PS | 4,000 | 10 | UV/visible | 1,000 |
| **11827922** | PS | 1,600 | 10 | UV/visible | 1,000 |



FISHERBRAND
SPOTLIGHT

The Fisherbrand digital colorimeter is an easy-to-use instrument and is a perfect accompaniment to the range of Fisherbrand cuvettes. Samples can be measured in either standard 10mm pathlength cuvettes (a minimum of 400µL is required) or in 16mm diameter test tubes (adapters for 10/12mm test tubes are available as an optional accessory)



**Digital colorimeter**
Cat. No 11805962 (EU plug)
Cat. No 11528092 (UK plug)

For further information on the products featured visit www.eu.fishersci.com/go/fisherbrand

# CYLINDERS

All Fisherbrand measuring cylinders are graduated with capacities ranging from 5mL to 2,000mL. The cylinder product offering is complete with Class A and Class B, spout or stoppered, and squat or low form.

Class B cylinders are used for basic measurement of liquids in qualitative work such as measuring solvents for reactions, making up solutions or adding an excess of a reagent, and are ideal for schools, universities and for general research laboratories. Class A cylinders, however, are intended for more accurate measurement of liquids and are used in analytical labs, quantative labs, and other controlled environments. However, they are not suitable for work which requires greater accuracy of less than 1%. For this a bulb pipette (0.2%) or a volumetric flask should be used.

## Cylinders, borosilicate glass, Class A



- Graduated in blue ceramic markings
- Hexagonal base
- Individual reorder code on each item
- DIN 12680 BS 604 ISO 4788
- Pouring spout

| Cat. No | Capacity, mL | Graduations, mL | Pack qty |
|---|---|---|---|
| **12952310** | 5 | 0.1 | 2 |
| **11517832** | 10 | 0.2 | 2 |
| **11527832** | 25 | 0.5 | 2 |
| **11537832** | 50 | 1 | 2 |
| **11547832** | 100 | 1 | 2 |
| **11557832** | 250 | 2 | 2 |
| **11567832** | 500 | 5.0 | 2 |
| **11577832** | 1,000 | 10 | 2 |
| **12962320** | 2,000 | 20 | 2 |

## Cylinders, borosilicate glass, Class B, spouted



- Graduated in blue ceramic markings
- Hexagonal base
- Individual reorder code on each item
- DIN 12680 BS 604 ISO 4788
- Pouring spout

| Cat. No | Capacity, mL | Graduations, mL | Pack qty |
|---|---|---|---|
| **11507702** | 5 | 0.1 | 2 |
| **11517702** | 10 | 0.2 | 2 |
| **11527702** | 25 | 0.5 | 2 |
| **11537702** | 50 | 1.0 | 2 |
| **11547702** | 100 | 1.0 | 2 |
| **11557702** | 250 | 2.0 | 2 |
| **11567702** | 500 | 5.0 | 2 |
| **11577702** | 1,000 | 10.0 | 2 |
| **11587702** | 2,000 | 20.0 | 1 |

## Cylinders, borosilicate glass, Class B, blue ceramic graduations



- Graduated in blue ceramic markings
- Hexagonal base
- Individual reorder code on each item
- DIN 12680 BS 604 ISO 4788
- With blue polypropylene stopper

| Cat. No | Capacity, mL | Graduations, mL | Pack qty |
|---|---|---|---|
| **11884263** | 25 | 0.5 | 2 |
| **12065645** | 50 | 1.0 | 2 |
| **11903365** | 100 | 1.0 | 2 |
| **12075645** | 250 | 2.0 | 2 |
| **11708265** | 500 | 5.0 | 2 |
| **12055645** | 1,000 | 10 | 2 |
| **12045645** | 2,000 | 20 | 1 |

## Cylinders, borosilicate glass, squat form, spouted, Class B



- Graduated in blue ceramic markings
- Hexagonal base
- Individual reorder code on each item
- DIN 12680 BS 604 ISO 4788

| Cat. No | Capacity, mL | Graduations, mL | Pack qty |
|---|---|---|---|
| **11902158** | 10 | 1.0 | 2 |
| **11912158** | 25 | 1.0 | 2 |
| **11922158** | 50 | 2.0 | 2 |
| **11932158** | 100 | 2.0 | 2 |
| **11942158** | 250 | 5.0 | 2 |
| **11952158** | 500 | 10 | 2 |
| **11962158** | 1,000 | 20 | 2 |

## Cylinders, borosilicate glass, spouted, left handed, Class B



- Graduated in blue ceramic markings
- Hexagonal base
- Individual reorder code on each item
- DIN 12680 BS 604 ISO 4788
- With blue polypropylene stopper

| Cat. No | Capacity, mL | Graduations, mL | Pack qty |
|---|---|---|---|
| **11972158** | 10 | 0.2 | 2 |
| **11982158** | 25 | 0.5 | 2 |
| **11992158** | 50 | 1.0 | 2 |
| **11902168** | 100 | 1.0 | 2 |
| **11912168** | 250 | 2.0 | 2 |

## Cylinders, Nessler

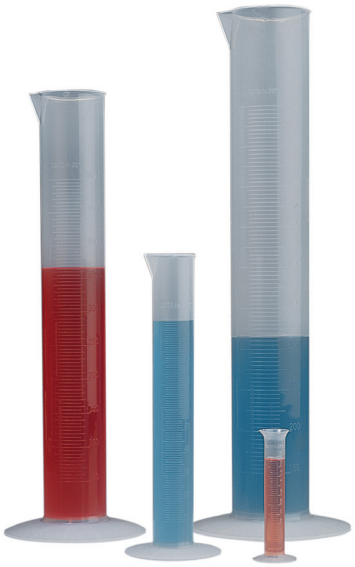


- Manufactured from borosilicate glass. Fisherbrand™ Nessler cylinders have a completely flat base.

| Cat. No | Capacity, mL | Pack qty |
|---|---|---|
| **11922168** | 50 | 2 |
| **11932168** | 100 | 2 |

## Cylinders, plastic, graduated, with spout

- Large rounded bases ribbed for reinforcement and stability
- Calibrated 'To Contain/To Deliver' at 20°C - meets ASTM laboratory standards
- Chemical, heat and impact resistant makes these cylinders excellent for long term use
- No meniscus to confuse readings - eliminates guesswork



| Cat. No | Capacity, mL | Pack qty |
|---|---|---|
| **Cylinders, PPCO** | | |
| **11947884** | 10 | 12 |
| **11957884** | 25 | 12 |
| **11967884** | 50 | 12 |
| **11997874** | 100 | 8 |
| **11907884** | 250 | 8 |
| **11967874** | 500 | 6 |
| **11937874** | 1,000 | 4 |
| **11927874** | 2,000 | 2 |
| **Cylinders, PMP** | | |
| **11907894** | 25 | 18 |
| **11917894** | 50 | 18 |
| **11977884** | 100 | 12 |
| **11917884** | 500 | 8 |
| **11977874** | 1,000 | 6 |
| **11947874** | 2,000 | 4 |



FISHERBRAND SPOTLIGHT

The Fisherbrand drying and spill tray is a chemical resistant containment tray ideal for drying your labware after washing. The plastic grid cuts drying time in half by permitting air circulation and also cushions and protects your labware against breakages and scratches.

Don't forget that Fisherbrand can also provide everyday essential safety products such as laboratory coats, gloves and bench protector absorbent paper.

**Gloves, latex, Aloe vera, medium**
Cat. No 15173269

**Gloves, nitrile, extra protection, medium**
Cat. No 15103279




**Drying rack and spill tray**
Cat. No 11704266

**Bench protector, absorbent paper**
Cat. No 11728742

For further information on the products featured visit www.eu.fishersci.com/go/fisherbrand

# FLASKS

Flasks are familiar and invaluable items in most laboratories essential for containing liquid and performing mixing, heating, cooling, precipitation, condensation and other processes. The range featured in this section includes Erlenmeyer or conical flasks, Büchner or sidearm flasks (ideal for creating vacuums) and volumetric flasks (clear and amber) used to measure accurately volumes of liquid.

## Flasks, borosilicate glass, conical, narrow neck, ISO 1773



- Erlenmeyer, graduated

| Cat. No | Capacity, mL | Height, mm | Widest OD, mm | OD. Neck, mm | Pack qty |
|---|---|---|---|---|---|
| **15499093** | 50 | 90 | 51 | 22 | 10 |
| **15409103** | 200 | 135 | 79 | 34 | 10 |
| **15419103** | 250 | 145 | 85 | 34 | 10 |
| **15429103** | 300 | 160 | 87 | 34 | 10 |
| **15439103** | 500 | 180 | 105 | 34 | 10 |
| **15449103** | 1,000 | 220 | 131 | 42 | 10 |
| **15459103** | 2,000 | 280 | 166 | 50 | 1 |
| **15469103** | 3,000 | 310 | 187 | 50 | 1 |
| **15479103** | 5,000 | 365 | 220 | 50 | 1 |

## Flasks, borosilicate glass, conical, wide neck




- Erlenmeyer, graduated

| Cat. No | Capacity, mL | Height, mm | Widest OD, mm | OD. Neck, mm | Pack qty |
|---|---|---|---|---|---|
| **15489103** | 50 | 85 | 51 | 34 | 10 |
| **15499103** | 100 | 105 | 64 | 34 | 10 |
| **15409113** | 250 | 140 | 85 | 50 | 10 |
| **15419113** | 300 | 156 | 87 | 50 | 10 |
| **15429113** | 500 | 175 | 105 | 50 | 10 |
| **15466133** | 1,000 | 220 | 131 | 50 | 10 |

## Flasks, borosilicate glass, narrow neck, heavy duty




- Erlenmeyer, graduated

| Cat. No | Capacity, mL | Height, mm | Widest OD, mm | Stopper size | Pack qty |
|---|---|---|---|---|---|
| **15476133** | 25 | 65 | 39 | 0 | 12 |
| **15496133** | 50 | 78 | 50 | 1 | 12 |
| **15406143** | 125 | 108 | 66 | 5 | 12 |
| **15426143** | 250 | 130 | 82 | 6 | 12 |
| **15436143** | 500 | 174 | 102 | 7 | 6 |
| **15446143** | 1,000 | 213 | 128 | 9 | 6 |
| **15456143** | 2,000 | 275 | 161 | 10 | 4 |
| **15466143** | 4,000 | 355 | 208 | 10 | 1 |
| **15439113** | 6,000 | 395 | 241 | 10 | 1 |

## Flasks, borosilicate glass, wide neck, heavy duty

- Erlenmeyer, graduated

| Cat. No | Capacity, mL | Height, mm | Widest OD, mm | Stopper size | Pack qty |
|---|---|---|---|---|---|
| **15486143** | 125 | 108 | 66 | 6 | 12 |
| **15496143** | 250 | 130 | 77 | 8 | 12 |
| **15406153** | 500 | 172 | 97 | 10 | 6 |
| **15416153** | 1 ,000 | 216 | 122 | 11 | 6 |

## Flasks, borosilicate glass, conical, culture, narrow neck



- Fluted, with four indents down the length of the wall to significantly increase the oxygen intake in the flask

| Cat. No | Capacity, mL | Height, mm | Diameter, mm | Internal neck diameter, mm | Pack qty |
|---|---|---|---|---|---|
| **11532283** | 250 | 140 | 85 | 30 | 1 |
| **11542283** | 500 | 180 | 105 | 30 | 1 |
| **11552283** | 1,000 | 225 | 130 | 34 | 1 |
| **11562283** | 2,000 | 280 | 165 | 41 | 1 |

## Flasks, filter, borosilicate glass, heavy duty

- With side arm



| Cat. No | Capacity, mL | Internal diameter, mm | Height, mm | Stopper size | Pack qty |
|---|---|---|---|---|---|
| **15426153** | 250 | 163 | 83 | 6 | 6 |
| **15436153** | 500 | 190 | 104 | 7 | 6 |
| **15446153** | 1,000 | 238 | 135 | 8 | 6 |
| **15456153** | 2,000 | 300 | 168 | 11 | 1 |
| **15466153** | 4,000 | 380 | 208 | 12 | 1 |

## Volumetric flasks, borosilicate glass, Class A certified

- ISO 1042, DIN 12664
- One mark graduation
- Interchangeable polyethylene stopper
- Details on each flask include confirmation of compliance to International Standards as well as an individual reorder code
- Batch certificate available





| Cat. No | Capacity, mL | Tolerance, mL | Stopper Ø, mm | Neck O.D., mm | Pack qty |
|---|---|---|---|---|---|
| **Flasks, clear, white markings** | | | | | |
| **11576923** | 5 | 0.04 | 10/19 | 13 | 5 |
| **11586923** | 10 | 0.04 | 10/19 | 13 | 5 |
| **11596923** | 20 | 0.04 | 10/19 | 13 | 5 |
| **11506933** | 25 | 0.04 | 10/19 | 13 | 5 |
| **11516933** | 50 | 0.06 | 12/21 | 15 | 5 |
| **11526933** | 100 | 0.10 | 12/21 | 15 | 5 |
| **11536933** | 200 | 0.20 | 14/23 | 17 | 2 |
| **11546933** | 250 | 0.30 | 14/23 | 17 | 2 |
| **11556933** | 500 | 0.25 | 19/24 | 22 | 2 |
| **11566933** | 1,000 | 0.40 | 24/29 | 28 | 2 |
| **11576933** | 2,000 | 0.60 | 29/32 | 28 | 1 |
| **Flasks, amber, white markings** | | | | | |
| **11379433** | 10 | 0.025 | 10/19 | 13 | 5 |
| **11389433** | 20 | 0.04 | 10/19 | 13 | 5 |
| **11399433** | 25 | 0.04 | 10/19 | 13 | 5 |
| **11309443** | 50 | 0.06 | 12/21 | 15 | 5 |
| **11319443** | 100 | 0.08 | 12/21 | 15 | 5 |
| **11329443** | 200 | 0.10 | 14/23 | 17 | 2 |
| **11339443** | 250 | 0.12 | 14/23 | 17 | 2 |
| **11349443** | 500 | 0.20 | 19/24 | 22 | 2 |
| **11359443** | 1,000 | 0.30 | 24/29 | 28 | 2 |

## Flasks, shaker, polycarbonate

- For suspension cultures, media preparation or storage.
- Moulded in graduations
- Polycarbonate with polypropylene closure; vented closure has 0.22µm pore PTFE
- Sterile, non-pyrogenic and non-cytotoxic
- Certified sterile at $10^{-6}$ SAL USP Class VI (5 year shelf life)
- For single use; individually packed for easy storage and handling
- Available with plain bottom for use on bench top, or baffled bottom for shaker table use
- Available with vented or non-vented screw closures
- Flask and non-vented closures are autoclavable



| Cat. No | Capacity, mL | Height, mm | Diameter, mm | Internal neck diameter, mm | Style | Pack qty |
|---|---|---|---|---|---|---|
| **Plain bottomed flask** | | | | | | |
| **11735373** | 125 | 113 | 66 | 26 | Vented | 24 |
| **11765253** | 250 | 137 | 83 | 26 | Vented | 12 |
| **11725263** | 500 | 178 | 102 | 38 | Vented | 12 |
| **11755253** | 1,000 | 224 | 130 | 36 | Vented | 6 |
| **11775263** | 2,000 | 274 | 162 | 36 | Vented | 4 |
| **11765373** | 2,800 | 239 | 203 | 61 | Vented | 4 |
| **11735263** | 125 | 113 | 66 | 26 | Non-vented | 24 |
| **11725253** | 250 | 137 | 83 | 26 | Non-vented | 12 |
| **11785253** | 500 | 178 | 102 | 38 | Non-vented | 12 |
| **11705253** | 1,000 | 224 | 130 | 36 | Non-vented | 6 |
| **Baffled bottomed flask** | | | | | | |
| **11755263** | 125 | 113 | 66 | 26 | Vented | 24 |
| **11735253** | 250 | 137 | 83 | 26 | Vented | 12 |
| **11705263** | 500 | 178 | 102 | 38 | Vented | 12 |
| **11715253** | 1,000 | 224 | 130 | 36 | Vented | 6 |
| **11725373** | 2,000 | 274 | 162 | 36 | Vented | 4 |



FISHERBRAND SPOTLIGHT

A comprehensive range of stirrers and hotplates is available from Fisherbrand. These products, together with magnetic stir bars and magnetic retrievers provide a complete offering for your routine and more advanced stirring and heating applications.

**Magnetic stir bar set**
Cat. No 10226853



**Ultra thin magnetic stirrer**
Cat. No 15361901




**Magnetic stir bar retriever**
Cat. No 11532912

**Magnetic stirrer, RT Basic**
Cat. No 15336607 (2L capacity)
Cat. No 15346607 (4L capacity)
Cat. No 15356607 (5L capacity)











**Digital hotplate, Isotemp RT**
Cat. No 15306607

**Digital hotplate stirrer, Isotemp RT**
Cat. No 15316607

**Digital hotplate stirrer, Isotemp RT Advanced, complete with safety screen**
Cat. No 15326607

For further information on the products featured visit www.eu.fishersci.com/go/fisherbrand

# FUNNELS

Fisherbrand offers a comprehensive range of funnels, including lightweight disposable polypropylene funnels through to Büchner and filter funnels for vacuum filtration. The range also includes speciality separating funnels, used to separate the components of a mixture into two immiscible solvent phases (usually organic and aqueous) of different densities.

## Funnels, borosilicate glass, conical

| Cat. No | Top diameter, mm | Stem length, mm | Stem outer diameter, mm | Pack qty |
|---|---|---|---|---|
| **11572423** | 55 | 60 | 8 | 10 |
| **11582423** | 75 | 80 | 9 | 10 |
| **11592423** | 100 | 110 | 12 | 10 |
| **11502433** | 155 | 150 | 19 | 1 |
| **11512433** | 215 | 180 | 24 | 1 |




## Funnels, borosilicate glass, conical, powder

| Cat. No | Top diameter, mm | Stem length, mm | Stem outer diameter, mm | Pack qty |
|---|---|---|---|---|
| **12983591** | 55 | 20 | 13 | 1 |
| **12993591** | 75 | 25 | 16 | 1 |
| **12903601** | 100 | 30 | 22 | 1 |



## Funnels, borosilicate glass, short stem

| Cat. No | Top diameter, mm | Stem length, mm | Stem outer diameter, mm | Pack qty |
|---|---|---|---|---|
| **10710105** | 30 | 35 | 6 | 10 |
| **10042222** | 35 | 40 | 7 | 10 |
| **10720295** | 45 | 50 | 7 | 10 |
| **10730295** | 50 | 55 | 7 | 10 |
| **10124352** | 55 | 60 | 8 | 10 |
| **10134352** | 60 | 65 | 8 | 10 |
| **10082242** | 75 | 80 | 9 | 10 |
| **10767414** | 80 | 85 | 9 | 10 |
| **10123682** | 100 | 110 | 12 | 10 |
| **10082252** | 120 | 120 | 17 | 10 |



## Funnels, borosilicate glass, separating, ISO 4800

- Available with interchangeable glass or PTFE stopcock, but supplied with a glass and plastic stopper.

| Cat. No | Capacity | Stopper size | Pack qty |
|---|---|---|---|
| **PTFE stopcock, interchangeable** | | | |
| **11562782** | 50 | 19/26 | 1 |
| **11572782** | 100 | 19/26 | 1 |
| **11582782** | 250 | 24/29 | 1 |
| **11592782** | 500 | 24/29 | 1 |
| **11502792** | 1,000 | 29/32 | 1 |
| **Glass stopcock, interchangeable** | | | |
| **11942128** | 50 | 19/26 | 1 |
| **11952128** | 100 | 19/26 | 1 |
| **11962128** | 250 | 24/29 | 1 |
| **11972128** | 500 | 24/29 | 1 |
| **11982128** | 1,000 | 29/32 | 1 |



## Funnels, borosilicate glass, separating, pear shaped, ISO 4800

- Available with interchangeable glass or PTFE stopcock, but supplied with a glass and plastic stopper

| Cat. No | Capacity | Stopper size | Pack qty |
|---|---|---|---|
| **Glass stopcock, interchangeable** | | | |
| **11992128** | 50 | 19/26 | 1 |
| **11902138** | 100 | 19/26 | 1 |
| **11912138** | 250 | 24/29 | 1 |
| **11922138** | 500 | 24/29 | 1 |
| **11932138** | 1,000 | 29/32 | 1 |
| **PTFE stopcock, interchangeable** | | | |
| **11942138** | 50 | 19/26 | 1 |
| **11952138** | 100 | 19/26 | 1 |
| **11962138** | 250 | 24/29 | 1 |
| **11972138** | 500 | 24/29 | 1 |
| **11982138** | 1,000 | 29/32 | 1 |



## Funnels, borosilicate glass, conical, sintered, filter

- With sintered glass disc

| Cat. No | Porosity | Capacity, mL | Disc diameter, mm |
|---|---|---|---|
| **11902148** | 3 | 35 | 30 |
| **11912148** | 4 | 35 | 30 |
| **11922148** | 3 | 80 | 40 |
| **11932148** | 4 | 80 | 40 |
| **11942148** | 3 | 125 | 65 |
| **11952148** | 4 | 125 | 65 |
| **11962148** | 3 | 500 | 95 |



## Funnels, polypropylene

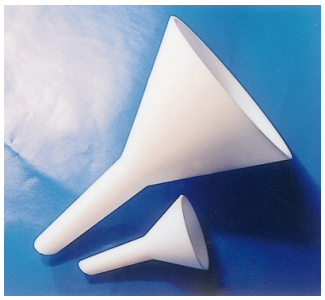
| Cat. No | Top diameter, mm | Stem length, mm | Stem outer diameter, mm | Capacity, mL | Pack qty |
|---|---|---|---|---|---|
| **Funnels, analytical** | | | | | |
| **11947914** | 34 | 52 | 6 | 12 | 36 |
| **11957914** | 48 | 50 | 7 | 23 | 36 |
| **11967914** | 55 | 61 | 7 | 37 | 36 |
| **11977914** | 66 | 65 | 7 | 50 | 36 |
| **11987914** | 77 | 80 | 7 | 100 | 36 |
| **11977904** | 104 | 99 | 9 | 150 | 24 |
| **11987904** | 158 | 151 | 14 | 225 | 24 |
| **Funnels, powder** | | | | | |
| **11997914** | 65 | 22 | 16 | 50 | 36 |
| **11907924** | 79 | 29 | 16 | 100 | 36 |
| **11997904** | 104 | 33 | 21 | 225 | 24 |
| **11907914** | 147 | 30 | 27 | 750 | 24 |
| **Funnels, utility** | | | | | |
| **11997934** | 68 | 21 | 14 | 40 | 72 |
| **11907944** | 87 | 22 | 13 | 100 | 72 |
| **11917944** | 109 | 37 | 18 | 140 | 72 |
| **11927944** | 127 | 46 | 19 | 210 | 72 |
| **11917914** | 160 | 66 | 48 | 410 | 24 |
| **11997884** | 203 | 46 | 24 | 500 | 12 |



## Funnels, PTFE, conical

- Chemically inert with super smooth, non-stick internal finish

| Cat. No | Top diameter, mm | Stem length, mm | Stem O.D., mm | Pack qty |
|---|---|---|---|---|
| **10232242** | 33 | 30 | 10 | 1 |
| **10314032** | 52 | 52 | 16 | 1 |
| **10189951** | 79 | 63 | 18 | 1 |
| **10140002** | 104 | 79 | 22 | 1 |
| **10620463** | 158 | 84 | 24 | 1 |





FISHERBRAND SPOTLIGHT

A wide range of filter papers is available from Fisherbrand which are suitable for general filtration of many types of samples.

For reliable, quick and easy filtrations operating at just the right vacuum, the Fisherbrand oil-free piston pump is ideal - just one of the many vacuum pumps available from Fisher Scientific.

**Filter paper QL 100**
Cat. No 11425248




**Funnels**
pages 73 to 75




**Vacuum and pressure pump, oil free**
Cat. No 11533485

For further information on the products featured visit www.eu.fishersci.com/go/fisherbrand

# HOMOGENISERS

The Fisherbrand range of manual glass homogenisers (sometimes also referred to as tissue grinders) is used during the initial stages of sample preparation to break down and disrupt a range of materials such as animal or plant tissues, foodstuffs and soil.

## Homogenisers, borosilicate glass, Griffiths tube



- For grinding bacterial emulsions and tissues, tube 90mm to 95mm, 18mm O.D. narrowing to ground, rounded end
- Ground half spherical pestle and mortar ends ensure perfect grinding

| Cat. No | Capacity, mL | Chamber length, mm | Length [max.], mm | Pestle diameter, mm |
|---|---|---|---|---|
| **11542443** | 5 | 90 | 150 | 12 |
| **With projections for coarse grinding. Mortar length 220mm** | | | | |
| **11552443** | 15 | 95 | 305 | 15 |

## Homogenisers, borosilicate glass, Dounce



- Designed for fine particle size reductions without damage to cell nuclei. Supplied with two interchangeable pestles
- Pestles are ground and polished for use in same tube. 'Loose' pestle used for sample preparation, 'tight' pestle for final homogenate

| Cat. No | Capacity, mL | Chamber length, mm | Pestle diameter, mm | Pack qty |
|---|---|---|---|---|
| **11562443** | 1 | 48 | 7.5 | 2 |
| **11572443** | 7 | 82 | 13 | 2 |
| **11582443** | 15 | 94 | 15 | 2 |
| **11592443** | 40 | 140 | 25 | 2 |

## Homogenisers, borosilicate glass, mini



- High quality mini homogenisers ideal for micro tissue work
- Bodies are clear precision glass. Pestles have ground glass working length

| Cat. No | Capacity, mL | Chamber length, mm | Pestle diameter, mm | Pack qty |
|---|---|---|---|---|
| **11512443** | 0.1 | 31 | 3.65 | 1 |
| **11522443** | 1.0 | 55 | 5.0 | 1 |
| **11532443** | 3.0 | 60 | 9.0 | 1 |

## Homogenisers, borosilicate glass, Safe-Seal™

- Supplied with a PTFE pestle, stainless steel handle and borosilicate glass mortar which is stoppered in PTFE to protect against splash back during the grinding process..

| Cat. No | Capacity, mL | Chamber length, mm | Pestle diameter, mm |
|---|---|---|---|
| **11592453** | 5 | 65 | 10 |
| **11502463** | 10 | 75 | 13 |
| **11512463** | 15 | 80 | 15 |
| **11522463** | 30 | 105 | 19 |





FISHERBRAND SPOTLIGHT

In addition to our products for manual grinding, Fisher Scientific is able to offer a range of ultrasonic disintegrators ideal for cell lysis and cell preparation.



**Ultrasonic disintegrator, 50W**
Cat. No 12961151



**Ultrasonic disintegrator, 150W**
Cat. No 12337338



**Ultrasonic disintegrator, 500W**
Cat. No 12893543

For further information on the products featured visit www.eu.fishersci.com/go/fisherbrand

# MICROPLATES

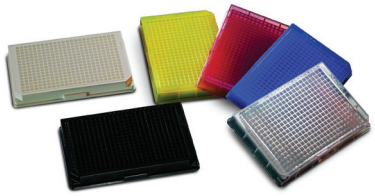
Microplates (or microtiter plates) are primarily used in analytical research for screening or multiple cell-based assays such as ELISA's (Enzyme-Linked Immunosorbent Assay). They are ideal products for simultaneously manipulating and managing large numbers of different samples and can also be useful for sample storage.

The Fisherbrand range features a variety of well designs and sizes, plastic materials and colours.

## Microplates, polypropylene, storage plates, 96 and 384 well

- Resistant to most reagents
- Withstand temperatures from -80°C to 121°C making these plates ideal for storage
- Round bottom wells for optimal sample recovery
- Come in a variety of colours for quick identification during storage

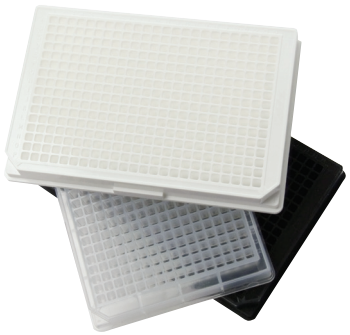
| Cat. No | Material | N° of wells | Colour | Well shape | Sterile | Well volume | Pack qty |
|---|---|---|---|---|---|---|---|
| **11907954** | PP | 96 | Natural | Round | N | 500µL | 80 |
| **11917954** | PP | 96 | Red | Round | N | 500µL | 80 |
| **11927954** | PP | 96 | Yellow | Round | N | 500µL | 80 |
| **11937954** | PP | 96 | Blue | Round | N | 500µL | 80 |
| **13505450** | PP | 96 | Natural | Round | Y | 500µL | 120 |
| **13515450** | PP | 96 | Natural | Round | Y | 1mL | 50 |
| **13535450** | PP | 96 | Natural | Round | N | 2mL | 60 |
| **13545450** | PP | 96 | Natural | Round | Y | 2mL | 60 |
| **13555450** | PP | 384 | Natural | Flat | N | 250µL | 60 |
| **13565450** | PP | 384 | Natural | Conical | N | 35µL | 100 |
| **13575450** | PP | 384 | Natural | Conical | Y | 35µL | 100 |
| **13595450** | PP | 384 | Black | Conical | N | 35µL | 100 |
| **13585450** | PP | 384 | White | Conical | N | 35µL | 100 |
| **11957954** | PP | 384 | Natural | Round | N | 120µL | 120 |
| **11967954** | PP | 384 | Red | Round | N | 120µL | 120 |
| **11977954** | PP | 384 | Yellow | Round | N | 120µL | 120 |
| **11987954** | PP | 384 | Blue | Round | N | 120µL | 120 |



## Microplates, polystyrene, non-treated, 96, 384 and 1536 well

- 96 well microplates are ideal for antibiotic screens, cell-based assays and screening compounds
- 384 well microplates conserve samples and reagents, providing cost savings and greater screening productivity
- 1,536 well microplates are engineered for high throughput screening, allowing end users to screen four times as many samples in one plates

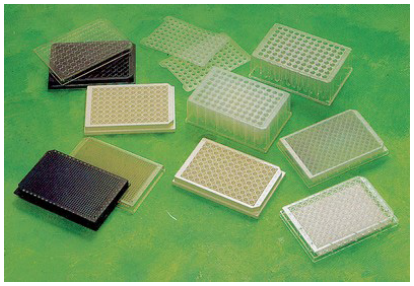
| Cat. No | Material | N° of wells | Colour | Well shape | Sterile | Well volume, µL | Pack qty |
|---|---|---|---|---|---|---|---|
| **11381555** | PS | 96 | Natural | Round | N | 1,300 | 50 |
| **11987944** | PS | 96 | Clear | Round | N | 300 | 80 |
| **11997944** | PS | 96 | Clear | Flat | N | 400 | 80 |
| **13525440** | PS | 96 | White | Flat | N | 400 | 180 |
| **13535440** | PS | 96 | Black | Flat | N | 400 | 180 |
| **13575480** | PS | 96 | Clear | Flat | N | 300 | 180 |
| **11947954** | PS | 384 | Clear | Flat | N | 120 | 80 |
| **13545440** | PS | 384 | White | Flat | N | 120 | 100 |
| **13555440** | PS | 384 | Black | Flat | N | 120 | 100 |
| **13565440** | PS | 384 | Clear | Flat | N | 120 | 100 |
| **13575440** | PS | 1,536 | Clear | Flat | N | 13.4 | 100 |
| **13585440** | PS | 1,536 | Black | Flat | N | 13.4 | 100 |
| **13595440** | PS | 1,536 | White | Flat | N | 13.4 | 100 |
| **Accessory** | | | | | | | |
| **11927964** | Lid for 96/384 well plate, polystyrene, clear, non sterile | | | | | | 180 |



## Microplates, 96 well, polystyrene, Krystal™

- Ideal for instruments that read through the bottom or the top and bottom of the plate
- Tissue culture treated plate allows cells to be cultured and counted in the same plate
- Clear bottom allows cell growth to be monitored easily using an inverted microscope

| Cat. No | Colour | Pack qty |
|---|---|---|
| **Non-treated, non-sterile** | | |
| **12419297** | White with clear bottom | 100 |
| **Tissue culture treated, sterile, with lid, individually packed** | | |
| **11597193** | White with clear bottom | 100 |



## Microplates, polypropylene, storage, deep well, 96 well

- Applications include sample storage for SPE, HPLC, MS, liquid handling, automation, robotics
- Unique, patented sealing cap allows penetration of a needle through the cap into each well, minimising coring of the needle as the base of each well of the cap has been reduced in thickness
- Manufactured from inert polypropylene for heat and solvent resistance
- Conical well base aids sample concentration, reconstitution and centrifugation
- Small radius on all corners to prevent sample precipitation and improve concentration
- DNase and RNase free



| Cat. No | Well volume, µL | Well shape | Pack qty |
|---|---|---|---|
| **12439307** | 350 | Square | 50 |
| **12449307** | 1,000 | Square | 50 |
| **11511963** | 2,000 | Square | 50 |
| **Accessory** | | | |
| **12419307** | Pierceable sealing cap (EVA), square well, non-autoclavable | | 50 |



FISHERBRAND
SPOTLIGHT

The new Fisherbrand Aspiration Advantage System is ideal for the safe and precise removal of non-flammable liquids from microplates as well as other containers such as petri dishes, chamber slides and flasks.




**Aspiration Advantage System**
Cat. No 15348191

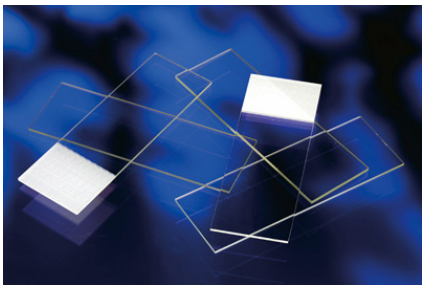
For further information on the products featured visit www.eu.fishersci.com/go/fisherbrand

# MICROSCOPY

In addition to the range of Fisherbrand microscopes, you can also find slides, coverslips, slide dispensers, slide boxes, storage racks and slide mailers as part of the wider Fisherbrand microscopy range.

## Microscope slides

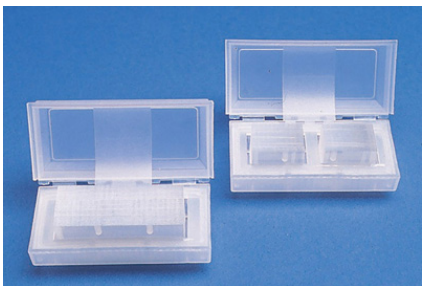
- Wrapped in cellophane for improved cleanliness
- Glass 76mm x 26mm
- Washed and polished 90° on all four sides
- Available plain or twin frosted



| Cat. No | Thickness, mm | Pack qty |
|---|---|---|
| **Plain** | | |
| **12373118** | 0.8 to 1 | 50 |
| **12383118** | 1.0 to 1.2 | 50 |
| **12393118** | 1.2 to 1.5 | 50 |
| **Twin frost** | | |
| **11562203** | 0.8 to 1 | 50 |
| **11572203** | 1.0 to 1.2 | 50 |

## Cover slips

- Clear white borosilicate glass, packed in plastic boxes
- No. 1: 0.13mm to 0.17mm
- No. 1½: 0.16mm to 0.19mm



| Cat. No | Dimensions, mm (*Diameter) | Pack qty |
|---|---|---|
| **No. 1** | | |
| **12323128** | 18 x 18 | 200 |
| **12333128** | 22 x 22 | 200 |
| **12343128** | 22 x 26 | 200 |
| **12353128** | 22 x 32 | 100 |
| **12363128** | 22 x 40 | 100 |
| **12373128** | 22 x 50 | 100 |
| **11338503** | 24 x 24 | 200 |
| **12393128** | 24 x 32 | 100 |
| **11348503** | 24 x 40 | 100 |
| **No. 1 Circles** | | |
| **12313138** | 16* | 200 |
| **12323138** | 19* | 200 |
| **12333138** | 22* | 200 |
| **No. 1½** | | |
| **12343138** | 18 x 18 | 200 |
| **12353138** | 20 x 20 | 200 |
| **12363138** | 22 x 22 | 200 |
| **12383138** | 22 x 50 | 100 |
| **12393138** | 24 x 24 | 200 |
| **No. 1½ Circles** | | |
| **12323148** | 16* | 100 |
| **11507323** | 22* | 100 |

## Microscope slide staining tray

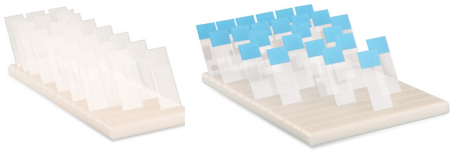
- Stain, rinse and dry slides on a single working tray.
- Disposable microscope slide staining trays and lid (pack includes 4 base trays and 1 lid)
- Each tray holds up to eight slides and the deep well holds up to 38ml
- Compact size and recessed handles for easy transport
- Dark lid protects slides for light sensitive applications
- Disposable



| Cat. No | Description | Colour | Dimensions [l x w x h], mm | Pack qty |
|---|---|---|---|---|
| **11968004** | Eight slide tray set | Black | 305 x 127 x 29.5 | 4 |

## Microscope slide holders

- Microscope slide holders for standard slides (76mm x 26mm)
- The 40 and 78 slide holders are ideal for drying slides and are made of chemically resistant polyethylene
- Strong, solid construction with rubber feet for bench top stability



| Cat. No | Description | Dimensions [l x w x h], mm | Pack qty |
|---|---|---|---|
| **11937984** | 40 slide holder | 105 x 24 x 31 | 1 |
| **11947984** | 78 slide holder | 299 x 178 x 21 | 1 |

## Microscope slide boxes

- Constructed of durable polypropylene, slide boxes hold 25 to 100 standard slides
- Feet to maximise stability
- Range of durable plastic microscope slide boxes ideal for storage or transport.
- Stackable





| Cat. No | Description | Lining | Capacity, slides | Colour | Pack qty |
|---|---|---|---|---|---|
| **11314135** | Push-fit lid | Cork | 25 | Blue | 1 |
| **11324135** | Push-fit lid | Cork | 25 | Green | 1 |
| **11334135** | Push-fit lid | Cork | 25 | Red | 1 |
| **11354135** | Push-fit lid | Cork | 25 | White | 1 |
| **11731486** | Thumb latch lock | Cork | 50 | Blue | 1 |
| **11771486** | Thumb latch lock | Cork | 50 | Red | 1 |
| **11781486** | Thumb latch lock | Cork | 50 | White | 1 |
| **11314145** | Nickel plated clasp | Cork | 100 | Blue | 1 |
| **11324145** | Nickel plated clasp | Cork | 100 | Green | 1 |
| **11334145** | Nickel plated clasp | Cork | 100 | Red | 1 |
| **11344145** | Nickel plated clasp | Cork | 100 | Yellow | 1 |
| **11354145** | Nickel plated clasp | Cork | 100 | White | 1 |
| **11364145** | Nickel plated clasp | Cork | 100 | Grey | 1 |
| **11374145** | Nickel plated clasp | Cork | 100 | Black | 1 |
| **11741476** | Hinged lid | Unlined | 25 | Blue | 1 |
| **11751476** | Hinged lid | Unlined | 25 | Red | 1 |
| **11761476** | Hinged lid | Unlined | 25 | White | 1 |
| **11771476** | Hinged lid | Unlined | 100 | Blue | 1 |
| **11781476** | Hinged lid | Unlined | 100 | Red | 1 |
| **11791476** | Hinged lid | Unlined | 100 | White | 1 |
| **11701486** | Nickel plated clasp | Foam lined | 100 | Blue | 1 |
| **10428241** | Nickel plated clasp | Foam lined | 100 | Green | 1 |
| **11711486** | Nickel plated clasp | Foam lined | 100 | Red | 1 |
| **11394135** | Nickel plated clasp | Foam lined | 100 | Yellow | 1 |
| **11721486** | Nickel plated clasp | Foam lined | 100 | White | 1 |

## Storage tray rack, microscope slide folders

- Unique rack allows the easy storage and retrieval of five 20 place slide folders (11703217)
- Stackable with folder identification clasps for reference and quick retrieval
- Ideal for room temperature or refrigerator storage of samples
- Temperature range: -10°C to 90°C
- Dimensions [l x w x h], mm 226 x 340 x 125



| Cat. No | Description |
|---|---|
| **11720594** | Storage tray rack for microscope slide folders |

## Microscope slide mailer, polypropylene, two place

- Polypropylene protectors hold two standard slides securely
- Large, easy to secure snaps, provide safe storage for valuable slides
- Variety of colours for coding
- Disposable



| Cat. No | Description | Dimensions (l x w x h) | Pack qty |
|---|---|---|---|
| **11745088** | Two place slide mailer, assorted colours (red, yellow, blue, purple, orange) | 93 x 68 x 5 | 25 |
| **11755088** | Two place slider mailer, natural | 93 x 68 x 5 | 25 |

## Microscope slide mailers, polypropylene, five place

- Polypropylene protectors hold five standard slides securely
- Inside wall features slotted channels to keep slides separated and to make removal easier
- Disposable




| | Cat. No | Description | Dimensions, mm | Pack qty |
|---|---|---|---|---|
| 1 | **11714316** | Five place slide mailer, natural, side open | 43 x 24 x 88 | 25 |
| 2 | **11725515** | Five place side mailer, natural, end opening | 43 x 24 x 88 | 25 |



FISHERBRAND SPOTLIGHT

Our featured upright biological microscope is an ideal way to introduce students to the world of microscopy. The high quality optics, made out of 100% optically coated glass, ensure a crisp and clear image. You can choose between the innovative cordless LED illumination, which produces no heat, or the standard tungsten lighting system.

Our featured stereo microscope is specially designed and developed for university teaching or research applications, or else for quick quality control management. Again, you can choose between the innovative cordless LED illumination or the standard tungsten systems.

The Fisherbrand series of research microscopes with LED illumination comes with the choice of three optical phase objectives and three optical heads. They are excellent general purpose microscopes ideal for university and research laboratory use.



**Upright biological microscope**
Cat. No 11702656



**Stereo microscope**
Cat. No 11702656



**Research microscope, binocular**
Cat. No 15398824

For further information on the products featured visit www.eu.fishersci.com/go/fisherbrand

# PETRI DISHES

A range of high quality aseptic or sterile Petri dishes perfect for microbial or cell culture, or for sample collection, examination and storage.

## Petri dishes, plastic, round

- Inner packs of 20

| Cat. No | Ø x H, mm | Vent | Pack qty |
|---|---|---|---|
| **Aseptic** | | | |
| **12694785** | 90 x 14.2 | 3 | 600 |
| **12664785** | 90 x 16.2 | 3 | 600 |
| **12644785** | 90 x 16.2 | 0 | 600 |
| **12654785** | 90 x 16.2 | 1 | 600 |
| **Sterile** | | | |
| **12604795** | 90 x 14.2 | 3 | 600 |
| **12674785** | 90 x 16.2 | 3 | 600 |
| **12684785** | 90 x 16.2 | 1 | 600 |





FISHERBRAND SPOTLIGHT

The Fisherbrand Counter-Pen™ is the perfect companion for Fisherbrand petri dishes - it is a combination marker and digital counter, providing an accurate and cost effective means of counting microbial colonies growing on your dishes.

Also, don't forget Fisher Bioreagents for your high quality agar, growth media and media supplements!




**LB agar, Miller, 500g**
Cat. No 10081163

**Counter pen**
Cat. No 11862710

For further information on the products featured visit www.eu.fishersci.com/go/fisherbrand

# PIPETTING

Fisherbrand offers a diverse range of pipetting products, such as glass bulb pipettes for the accurate dispense of specified volumes of liquid, Pasteur and other transfer pipettes (available graduated or ungraduated), and serological pipettes, ideal for use with the new Fisherbrand motorised pipettor (refer to Fisherbrand Spotlight page 89). The range also includes an assortment of standard and speciality pipette tips, and reagent reservoirs for use with multichannel and dispensing pipettors.

## Pipettes, bulb, soda lime glass, one mark, ISO 648, DIN 12691, class AS, certified



- Colour coded to BS 3996
- Blue ceramic graduations
- Batch certificate available

| Cat. No | Capacity, mL | Tolerance, mL | Colour | Pack qty |
|---|---|---|---|---|
| **15227935** | 1 | 0.008 | Blue | 2 |
| **15237935** | 2 | 0.010 | Orange | 2 |
| **15247935** | 5 | 0.015 | White | 2 |
| **15257935** | 10 | 0.020 | Red | 2 |
| **15267935** | 25 | 0.030 | Blue | 2 |
| **15277935** | 50 | 0.050 | Red | 2 |
| **15287935** | 100 | 0.080 | Yellow | 2 |

## Pipettes, bulb, soda lime glass, one mark, BS 1583, Class B



- Colour coded to BS 3996
- Blue ceramic graduations

| Cat. No | Capacity, mL | Tolerance, mL | Colour | Pack qty |
|---|---|---|---|---|
| **11942168** | 1 | ±0.015 | Blue | 5 |
| **11952168** | 5 | ±0.03 | White | 5 |
| **11962168** | 10 | ±0.04 | Red | 5 |
| **11972168** | 25 | ±0.06 | Blue | 5 |
| **11982168** | 50 | ±0.10 | Red | 5 |

## Pipettes, straight, soda lime glass, graduated, ISO 835, Class AS, Type 1, certified

- Blue ceramic graduations
- Batch certificate available

| Cat. No | Capacity, mL | Graduation, mL | Pack qty |
|---|---|---|---|
| **15277925** | 1 | 0.01 | 2 |
| **15287925** | 2 | 0.02 | 2 |
| **15297925** | 5 | 0.05 | 2 |
| **15207935** | 10 | 0.10 | 2 |
| **15217935** | 25 | 0.10 | 2 |

## Pipettes, straight, soda lime glass, graduated, BS 700 ISO 835, Class B, Type 1 and Type 2



- Blue ceramic graduations

| Cat. No | Capacity, mL | Graduations, mL | Tolerance, mL | Pack qty |
|---|---|---|---|---|
| **Type 1** | | | | |
| **11992168** | 1 | 0.01 | ±0.01 | 5 |
| **11902178** | 5 | 0.05 | ±0.05 | 5 |
| **11912178** | 10 | 0.1 | ±0.10 | 5 |
| **11922178** | 25 | 0.2 | ±0.20 | 5 |
| **Type 2** | | | | |
| **11932178** | 5 | 0.05 | ±0.20 | 5 |
| **11942178** | 10 | 0.1 | ±0.10 | 5 |
| **11952178** | 25 | 0.2 | ±0.20 | 5 |

## Pipettes, Pasteur, soda lime glass



| Cat. No | Length, mm | Type | Inner pack qty | Pack qty |
|---|---|---|---|---|
| **11546963** | 150 | Unplugged | 250 | 1,000 |
| **11566963** | 230 | Unplugged | 250 | 1,000 |
| **11755108** | 270 | Unplugged | 250 | 1,000 |
| **11506973** | 150 | Plugged | 250 | 1,000 |
| **11765098** | 230 | Plugged | 250 | 1,000 |
| **11795098** | 270 | Plugged | 250 | 1,000 |

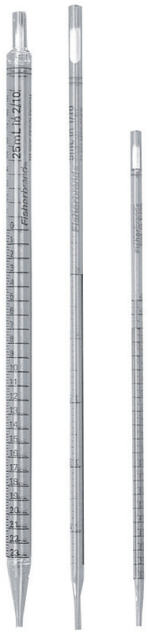
## Pipettes, transfer

- Low density polyethylene
- Transparent
- Graduated or non-graduated
- Sterile options available
- Various packaging formats

| | Cat. No | Description | Sterile | Length, mm | Drop volume, µL | Drop per mL | Pack qty |
|---|---|---|---|---|---|---|---|
| | **13469118** | Transfer pipette PE, 1mL | No | 104 | 33 | 30 | 400 |
| 1 | **13499108** | Transfer pipette PE, 1mL, graduated | No | 150 | 33 | 30 | 500 |
| 2 | **13439118** | Transfer pipette PE, 1mL, graduated, extended tip | No | 150 | 33 | 30 | 500 |
| 3 | **13489108** | Transfer pipette PE, 1mL, graduated | Yes | 150 | 33 | 30 | 500 |
| | **13419118** | Transfer pipette PE, 1mL, graduated, inner pack of 10 | Yes | 150 | 33 | 30 | 500 |
| | **13429118** | Transfer pipette PE, 1mL, graduated, inner pack of 20 | Yes | 150 | 33 | 30 | 500 |
| | **13439108** | Transfer pipette PE, 3mL, graduated | No | 155 | 40 | 25 | 500 |
| 4 | **13469108** | Transfer pipette PE, 3mL, graduated | Yes | 155 | 40 | 25 | 500 |
| | **13479108** | Transfer pipette PE, 3mL, graduated, inner pack of 10 | Yes | 155 | 40 | 25 | 500 |
| | **13409118** | Transfer pipette PE, 3mL, graduated, inner pack of 20 | Yes | 155 | 40 | 25 | 500 |
| 5 | **13459118** | Transfer pipette PE, 4mL, thin stem | No | 150 | 33 | 30 | 500 |
| 6 | **13459108** | Transfer pipette PE, 4mL | No | 150 | 33 | 50 | 500 |
| 7 | **13449108** | Transfer pipette PE, 7mL, extra long | No | 300 | 50 | 20 | 100 |
| 8 | **13449118** | Transfer pipette PE, 10mL, jumbo | No | 170 | 56 | 18 | 200 |



## Pipettes, serological, straight, polystyrene, individually wrapped



- Non-pyrogenic and non-cytotoxic warranty
- DNase and RNase free
- Supplied in paper/plastic packaging, or plastic/plastic packaging
- Sterilisation using gamma irradiation

| Cat. No | Capacity, mL | Graduations, mL | Colour | Inner pack qty | Pack qty |
|---|---|---|---|---|---|
| **Pipettes individually wrapped plastic/plastic** | | | | | |
| **11819660** | 1 | 0.01 | Yellow | 1 | 1,000 |
| **11879650** | 2 | 0.01 | Green | 1 | 500 |
| **11829660** | 5 | 0.1 | Blue | 1 | 200 |
| **11839660** | 10 | 0.1 | Orange | 1 | 200 |
| **11517752** | 25 | 0.2 | Red | 1 | 200 |
| **11537752** | 50 | 0.5 | Purple | 1 | 100 |
| **Pipettes individually wrapped paper/plastic** | | | | | |
| **11849181** | 1 | 0.01 | Yellow | 1 | 1,000 |
| **11859181** | 2 | 0.01 | Green | 1 | 500 |
| **11869181** | 5 | 0.1 | Blue | 1 | 200 |
| **11879181** | 10 | 0.1 | Orange | 1 | 200 |
| **11839181** | 25 | 0.2 | Red | 1 | 200 |
| **11889181** | 50 | 0.5 | Purple | 1 | 100 |

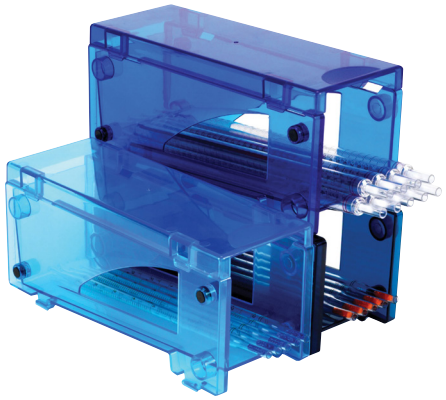
## Pipettes, serological, straight, polystyrene, bulk wrapped



- DNase and RNase free
- Sterilisation using gamma irradiation
- A black magnifer strip runs lengthwise along the pipette making the meniscus obvious and reducing reading errors
- The 5mL, 10mL and 50mL sizes have both ascending and descending graduations
- Tip design on the 50mL size increases the effect of surface tension to minimise dripping

| Cat. No | Capacity, mL | Graduation, mL | Colour | Inner pack qty | Pack qty |
|---|---|---|---|---|---|
| **11879660** | 1 | 0.01 | Yellow | 50 | 1,000 |
| **11889660** | 2 | 0.01 | Green | 50 | 500 |
| **11899660** | 5 | 0.1 | Blue | 50 | 500 |
| **11809670** | 10 | 0.1 | Orange | 25 | 500 |
| **11829670** | 50 | 0.5 | Purple | 25 | 100 |

## Pipette rack, stackable



- Ideal for storing and organising serological pipettes
- Angled shelves store 1.0mL to 50mL pipettes within easy reach
- Click together to horizontally or lock in place with top connectors
- Protective lid to prevent dust build up
- Magnets on both sides of the unit connect securely and safely to metal surfaces
- Material: Acrylonitrile butadiene styrene (ABS)

| Cat. No | Description | Dimensions [l x w x h], mm |
|---|---|---|
| **11958004** | Supplied as 3 compartments with 3 lids | 286 x 301 x 127.5 |

# Pipettor tips, standard, universal fit, SureOne™

- Non-sterile products - certified to be free of RNase/DNase and DNA
- Sterile products - e-beam sterile products are certified to be free of RNase/DNase, pyrogen, bioburden, PCR* inhibitors and endotoxins
- Fisherbrand™ SureOne™ pipettor tips are a comprehensive line of universal fit pipettor tips, available in a range of volumes, from 5µL to 10mL, in bulk, racked, sterile racked and the environmentally friendly reload system
- Compatible with most popular brands of pipettor, SureOne™ achieves optimal fit with Fisherbrand™ Elite™ pipettors

| Cat. No | Volume, µL | Pack type | Colour | Inner pack qty | Pack qty |
|---|---|---|---|---|---|
| **5µL nano micropoint tip, graduated at 2.5µL** | | | | | |
| **11987724** | 0.1 to 5 | Bulk | Clear | - | 1,000 |
| **11997724** | 0.1 to 5 | Racked | Clear | 96 | 960 |
| **11907734** | 0.1 to 5 | Racked sterile | Clear | 96 | 960 |
| **11997714** | 0.1 to 5 | Filtered sterile reload | Clear | 96 | 960 |
| **10µL micropoint tip, graduated at 2µL** | | | | | |
| **11933416** | 0.1 to 10 | Bulk | Clear | - | 1,000 |
| **11953416** | 0.1 to 10 | Racked | Clear | 96 | 960 |
| **10053014** | 0.1 to 10 | Racked sterile | Clear | 96 | 960 |
| **11973416** | 0.1 to 10 | Reload | Clear | 96 | 960 |
| **11903466** | 0.1 to 10 | Filtered sterile | Clear | 96 | 960 |
| **11907724** | 0.1 to 10 | Filtered sterile reload | Clear | 96 | 960 |
| **10µL extended length micropoint tip, graduated at 2.5µL** | | | | | |
| **11983416** | 0.1 to 10 | Bulk | Clear | - | 1,000 |
| **11588402** | 0.1 to 10 | Racked | Clear | 96 | 960 |
| **10527014** | 0.1 to 10 | Racked sterile | Clear | 96 | 960 |
| **11967714** | 0.1 to 10 | Reload | Clear | 96 | 960 |
| **11913466** | 0.1 to 10 | Filtered sterile | Clear | 96 | 960 |
| **11917724** | 0.1 to 10 | Filtered sterile reload | Clear | 96 | 960 |
| **20µL universal bevelled tip (use 11983456 20µL to 300µL empty rack box for reloads)** | | | | | |
| **11933426** | 2 to 20 | Filtered sterile | Clear | 96 | 960 |
| **11937724** | 2 to 20 | Filtered sterile reload | Clear | 96 | 960 |
| **100µL universal bevelled tip** | | | | | |
| **11953466** | 10 to 100 | Filtered sterile | Clear | 96 | 960 |
| **11947724** | 10 to 100 | Filtered sterile reload | Clear | 96 | 960 |
| **200µL universal bevelled tip** | | | | | |
| **11933426** | 1 to 200 | Bulk | Clear | - | 1,000 |
| **10678325** | 1 to 200 | Racked | Clear | 96 | 960 |
| **11963426** | 1 to 200 | Racked sterile | Clear | 96 | 960 |
| **11578412** | 1 to 200 | Reload | Clear | 96 | 960 |
| **10124314** | 1 to 200 | Bulk | Yellow | - | 1,000 |
| **11983426** | 1 to 200 | Racked | Yellow | 96 | 960 |
| **11903436** | 1 to 200 | Racked sterile | Yellow | 96 | 960 |
| **11913436** | 1 to 200 | Reload | Yellow | 96 | 960 |
| **200µL universal thin wall micropoint tip** | | | | | |
| **11538422** | 1 to 200 | Bulk | Clear | - | 1,000 |
| **11933436** | 1 to 200 | Racked | Clear | 96 | 960 |
| **11943436** | 1 to 200 | Racked sterile | Clear | 96 | 960 |
| **11953436** | 1 to 200 | Reload | Clear | 96 | 960 |
| **11963436** | 1 to 200 | Bulk | Yellow | - | 1,000 |
| **11973436** | 1 to 200 | Racked | Yellow | 96 | 960 |
| **11983436** | 1 to 200 | Racked sterile | Yellow | 96 | 960 |
| **11993436** | 1 to 200 | Reload | Yellow | 96 | 960 |
| **200µL universal bevelled tip, graduated at 10µL, 50µL and 100µL** | | | | | |
| **11943446** | 1 to 200 | Bulk | Clear | - | 1,000 |
| **11953446** | 1 to 200 | Racked | Clear | 96 | 960 |
| **11963446** | 1 to 200 | Racked sterile | Clear | 96 | 960 |
| **12922521** | 1 to 200 | Reload | Clear | 96 | 960 |
| **11903446** | 1 to 200 | Bulk | Yellow | - | 1,000 |
| **11913446** | 1 to 200 | Racked | Yellow | 96 | 960 |
| **11923446** | 1 to 200 | Racked sterile | Yellow | 96 | 960 |
| **11933446** | 1 to 200 | Reload | Yellow | 96 | 960 |
| **200µl universal micropiont tip, graduated at 10µL, 50µL and 100µL** | | | | | |
| **11957724** | 20 to 200 | Filtered, sterile, reload | Clear | 96 | 960 |
| **300µL universal bevelled/micropoint tip, graduated at 10µL, 50µL, 100µL and 200µL** | | | | | |
| **11993446** | 5 to 300 bevelled tip | Bulk | Clear | - | 1,000 |
| **11903456** | 5 to 300 bevelled tip | Racked | Clear | 96 | 960 |
| **10003414** | 5 to 300 micropoint tip | Racked sterile | Clear | 96 | 960 |
| **11538442** | 5 to 300 micropoint tip | Reload | Clear | 96 | 960 |
| **1,000µl universal micropoint tip, graduated at 100µL, 200µL, 500µL and 1,000µL** | | | | | |
| **11973466** | 100 to 1,000 | Filtered sterile | Clear | 96 | 960 |
| **11977724** | 100 to 1,000 | Filtered sterile reload | Clear | 96 | 960 |
| **1,250µL universal micropoint tip, graduated at 100µL, 200µL, 500µL and 1,000µL** | | | | | |
| **11548442** | 100 to 1,250 | Bulk | Clear | - | 1,000 |
| **11568442** | 100 to 1,250 | Racked | Clear | 96 | 960 |
| **10164694** | 100 to 1,250 | Racked sterile | Clear | 96 | 960 |
| **11588442** | 100 to 1,250 | Reload | Clear | 96 | 960 |
| **11963466** | 100 to 1,250 | Filtered, bulk | Clear | - | 1,000 |
| **10778535** | 100 to 1,250 | Bulk | Blue | - | 1,000 |
| **10537014** | 100 to 1,250 | Racked | Blue | 96 | 960 |
| **10492725** | 100 to 1,250 | Racked sterile | Blue | 96 | 960 |
| **11963456** | 100 to 1,250 | Reload | Blue | 96 | 960 |

## Pipettor tips, standard, universal fit, SureOne™, continued

| Cat. No | Volume, µL | Pack type | Colour | Description | Pack qty |
|---|---|---|---|---|---|
| **2,500µL tips** | | | | | |
| **11987744** | 250 to 2,500 | Bulk | Clear | Fits with Rainin EDP2™ | 500 |
| **11997744** | 250 to 2,500 | Bulk | Clear | Fits with Eppendorf™ and Biohit style pipettors | 500 |
| **5,000µL tips** | | | | | |
| **11648138** | 1,000 to 5,000 | Bulk | Clear | Fits with Eppendorf™ and Biohit style pipettors | 250 |
| **11937754** | 1,000 to 5,000 | Bulk | Clear | Fits with Fisherbrand™ Elite and Finnpipette™ style pipettors | 250 |
| **10,000µL tips** | | | | | |
| **11947754** | 1,000 to 10,000 | Bulk | Clear | Fits with Gilson style pipettors | 200 |
| **11957754** | 1,000 to 10,000 | Bulk | Clear | Fits with Fisherbrand™ Elite and Finnpipette™ style pipettors | 100 |
| **Accessories** | | | | | |
| **Cat. No** | **Description** | | | | **Pack qty** |
| **11973456** | SureOne™ empty rack boxes for reloads of 10µL to 20µL tips | | | | 10 |
| **11983456** | SureOne™ empty rack boxes for reloads of 20µL to 300µL tips | | | | 10 |
| **11993456** | SureOne™ empty rack boxes for reloads of 1,250µL tips | | | | 10 |

## SureOne™ speciality tips

- Fisherbrand SureOne™ speciality pipettor tips include gel loading, genomic and extended length tips, in bulk, racked and sterile racked packaging
- SureOne™ universal fit, speciality pipettor tips are compatible with most popular brands of pipettor (optimal fit with Fisherbrand Elite™ pipettor)
- Non-sterile products - certified to be free of RNase/DNase and DNA
- Sterile products - e-beam sterile products are certified to be free of RNase/DNase, pyrogen, bioburden, PCR* inhibitors and endotoxins

| | Cat. No | Volume, µL | Pack type | Filtered | Sterile | Inner pack qty | pack qty |
|---|---|---|---|---|---|---|---|
| 1 | **Gel loading tip, outer diameter 0.58mm** | | | | | | |
| | **11927734** | 1 to 200 | Bulk | No | No | - | 1,000 |
| | **11937734** | 1 to 200 | Racked | No | No | 96 | 960 |
| | **11367801** | 1 to 200 | Racked | No | Yes | 96 | 960 |
| | **11967734** | 1 to 200 | Bulk | No | No | 204 | 1,020 |
| 2 | **Extended length, 90mm long** | | | | | | |
| | **11977734** | 1 to 200 | Bulk | No | No | - | 1,000 |
| | **11997734** | 2 to 20 | Racked | Yes | Yes | 204 | 1,632 |
| | **11907744** | 10 to 100 | Racked | Yes | Yes | 204 | 1,632 |
| 3 | **Large orifice tip, inner diameter 1.5mm** | | | | | | |
| | **11927744** | 1 to 200 | Racked | No | No | 96 | 960 |
| | **11937744** | 1 to 200 | Racked | No | Yes | 96 | 960 |
| | **11947744** | 20 to 200 | Racked | Yes | Yes | 96 | 960 |
| | **11957744** | 100 to 1,000 | Racked | No | No | 96 | 960 |
| | **11967744** | 100 to 1,000 | Racked | No | Yes | 96 | 960 |
| | **11977744** | 100 to 1,000 | Racked | Yes | Yes | 96 | 960 |




*Polymerase Chain Reaction (PCR) is a process covered by patents owned by Hoffmann-La Roche

## Reagent reservoir, dual solution

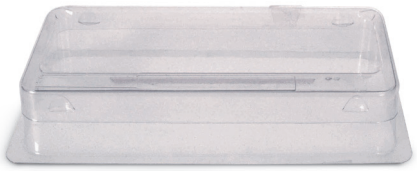
- For use with multichannel pipettors.
- Polypropylene solution/reagent reservoir that has a standard 50mL basin one side and 12 individual 5mL basins on the other. Wells are angled both downward and outward to allow maximum recovery of liquids. Imprinted indices identify samples and a loose lid helps prevent evaporation or contamination. Packs contain reservoirs and lids.

| Cat. No | Dimensions [l x w x h], mm | Pack qty |
|---|---|---|
| **11978084** | Reagent reservoir, 1 x 50mL and 12 x 5mL basins | 25 |



## Reagent reservoirs, PVC

| Cat. No | Capacity, mL | Material | Sterile | Pack qty |
|---|---|---|---|---|
| **11908495** | 50 | PVC | No | 100 |



## Reagent reservoirs, disposable



- Disposable reagent reservoirs for use with multichannel pipettors
- Can hold up to 100mL
- Clear PVC or white polystyrene
- Available in sterile or non-sterile packs

| Cat. No | Description | Inner pack qty | Pack qty |
|---|---|---|---|
| **12369175** | 50mL, PVC, clear, non-sterile | - | 100 |
| **12399175** | 100mL, PS, natural, sterile | 5 | 200 |

## Dispensing tips



| Cat. No | Capacity, mL | Sterile | Pack qty |
|---|---|---|---|
| **15163646** | 0.1 | N | 100 |
| **15113656** | 0.1 | Y | 100 |
| **15133646** | 0.5 | N | 100 |
| **15123656** | 0.5 | Y | 100 |
| **15153646** | 1.25 | N | 100 |
| **15143656** | 1.25 | Y | 100 |
| **15173646** | 2.5 | N | 100 |
| **15133656** | 2.5 | Y | 100 |
| **15143646** | 5.0 | N | 100 |
| **15153656** | 5.0 | Y | 100 |
| **15193646** | 12.5 | N | 100 |
| **15173656** | 12.5 | Y | 100 |
| **15163656** | 25.0 | Y | 25 |
| **15103656** | 50 | N | 25 |
| **15183656** | 50 | Y | 25 |

**Accessories**

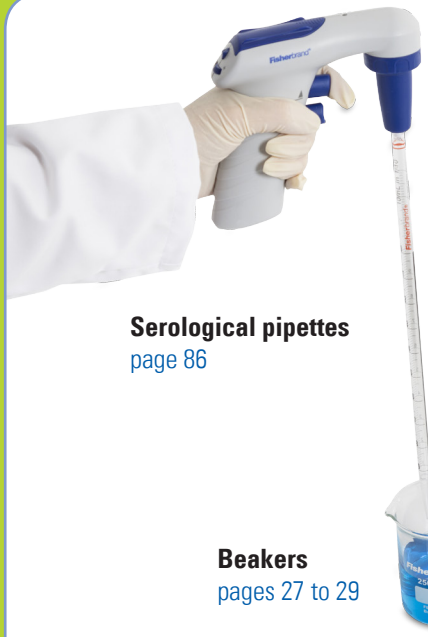
| Cat. No | Description | Sterile | Pack qty |
|---|---|---|---|
| **15193656** | Adapter for dispenser tip 25/50 mL | N | 10 |
| **15103666** | Adapter for dispenser tip 25/50 mL | Y | 1 |



FISHERBRAND SPOTLIGHT

The Fisherbrand Elite™ pipettor kit will enable you to achieve the best results in your lab with exceptional ergonomics. This kit consolidates four of the more popular pipettor volumes with the Elite pipettor stand, combining the convenience of using a single ordering code for multiple items and providing up to 20% savings compared to the purchase of the individual components.

To further complement the Fisherbrand liquid handling portfolio, the new motorised pipette filler is also available. It has been ergonomically designed and is suitable for glass and plastic pipettes from 0.1mL to 200mL.



**Motorised pipette filler**
Cat. No 15249805

**Serological pipettes**
page 86

**Beakers**
pages 27 to 29



**Elite™ pipettor kit**
Cat. No 15268638



**Pipette tips**
pages 87 to 88

For further information on the products featured visit www.eu.fishersci.com/go/fisherbrand

# SAMPLING AND STORAGE

Collect and store your samples with our range of Fisherbrand scoops, samplers and storage containers, and keep your workplace tidy with Fisherbrand laboratory dispensers and disposal bins.

## Aluminium foil and dispenser

- Compact, easily transported foil dispenser
- Stable with non-slip base
- Safety blade is integrated into the cover

| | Foil dispenser | Description | Dimensions | Pack qty |
|---|---|---|---|---|
| 1 | **11957994** | Foil dispenser, ABS, blue | 190mm x 100mm x 120mm (w x d x h) | 1 |
| | **Foil rolls** | **Description** | **Dimensions** | |
| 2 | **11967994** | Aluminium foil for foil dispenser | 102mm x 153m (w x l) | 1 |
| | **11977994** | Aluminium foil for foil dispenser | 153mm x 153m (w x l) | 1 |




## Containers, jars, polypropylene, translucent, heavy weight

- Ideal for general laboratory applications.
- Excellent chemical resistance
- Polypropylene screw closure - leakproof
- Autoclavable with cap loosened

| Cat. No | Capacity, mL | Cap size, mm | Height, mm | O.D., mm | Pack qty |
|---|---|---|---|---|---|
| **11523242** | 30 | 33/R3 | 45 | 36 | 10 |
| **11533242** | 60 | 33/R3 | 80 | 36 | 10 |
| **11543242** | 125 | 38/R3 | 93 | 50 | 10 |
| **11553242** | 150 | 58/R3 | 68 | 60 | 10 |
| **11563242** | 250 | 58/R3 | 114 | 61 | 10 |
| **11573242** | 500 | 58/R3 | 140 | 76 | 10 |
| **11583242** | 1,000 | 70/R3 | 200 | 90 | 5 |




## Containers, jars, PTFE

- Isostatically moulded from pure PTFE with thick wall construction, smooth internal finish and screw cap.
- Stackable

| Cat. No | Capacity, mL | Height, mm | Diameter, mm | Pack qty |
|---|---|---|---|---|
| **10313502** | 15 | 34 | 34 | 1 |
| **10323502** | 30 | 62 | 34 | 1 |
| **10140342** | 60 | 46 | 60 | 1 |
| **10291952** | 120 | 62 | 72 | 1 |
| **10199901** | 240 | 100 | 72 | 1 |
| **10724143** | 360 | 95 | 90 | 1 |
| **10393882** | 480 | 125 | 90 | 1 |
| **10363602** | 1,000 | 160 | 110 | |



## Containers, polyethylene with LDPE lid, specimen

- Designed for collection, transport and storage of liquid and dry specimens and samples.
- Moulded of autoclavable high quality HDPE, with thick walls
- Inert to most chemicals including formaldehyde, weak acids and all bases
- Resist freezing and boiling
- Easy to write on with pen or pencil
- Stackable for compact storage
- Come with LDPE lids (non-autoclavable)

| Cat. No | Style | Capacity, mL | Colour | Pack qty |
|---|---|---|---|---|
| **12029977** | Short/wide | 120 | Translucent | 300 |
| **11709388** | Tall/thin | 120 | Translucent | 100 |
| **12049977** | Short/wide | 240 | Translucent | 100 |
| **11719388** | Short/wide | 240 | White | 100 |
| **11974375** | Tall/thin | 240 | Translucent | 100 |
| **12029957** | Tall/thin | 240 | White | 100 |
| **12089977** | Multipurpose | 473 | Translucent | 100 |
| **11994375** | Multipurpose | 473 | White | 100 |
| **12089947** | Multipurpose | 1,100 | Translucent | 100 |
| **12009957** | Multipurpose | 1,900 | Translucent | 50 |
| **12009967** | Multipurpose | 1,900 | White | 50 |
| **12039957** | Multipurpose | 2,500 | Translucent | 25 |
| **12069967** | Multipurpose | 2,500 | White | 25 |
| **12099957** | Multipurpose | 5,100 | Translucent | 10 |
| **12089967** | Multipurpose | 5,100 | White | 10 |



## Containers, specimen, polypropylene, autoclavable

- For use with liquid, semi-solid and solid samples
- Inert to most chemicals
- Graduated
- With or without non-autoclavable polyethylene snap-on lid
- Sterile containers with lids are individually wrapped
- Non-sterile and sterile containers without lids are bulk packed

| Cat. No | Lid | Sterile, Yes /No | Colour | Capacity, mL | Pack qty |
|---|---|---|---|---|---|
| **11779378** | Yes | Yes | Translucent | 130 | 500 |
| **11769378** | No | Yes | Translucent | 130 | 500 |
| **11964395** | No | No | Translucent | 130 | 500 |
| **11799378** | Yes | Yes | Translucent | 240 | 500 |
| **11789378** | Yes | Yes | Translucent | 240 | 500 |
| **11984375** | No | No | Translucent | 240 | 500 |

**Accessories**

| Cat. No | Description | Sterile, Yes /No | Pack qty |
|---|---|---|---|
| **11924395** | Lids for specimen containers | Yes | 500 |
| **11974385** | Lids for specimen containers | No | 500 |



## Containers, storage, Tubby™

- Stackable storage containers to help with laboratory organisation or transportation of products
- Removable dividers
- For keeping gloves, tubes, tips, pipettes and other small items organised and tidy
- Stackable and proportionately sized to utilise space efficiently

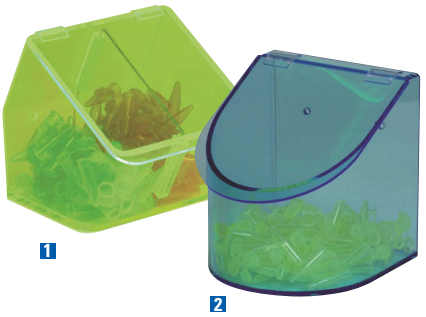
| Cat. No | Description | Dimensions, (w x d x h), mm | Pack qty |
|---|---|---|---|
| **11938014** | Tubby™, with 5 tubs, 5 lids and 15 dividers | 330 x 200 x 115 | 5 |



## Dispensing bins, bench top

- Ideal for holding many different laboratory items including micro-centrifuge tubes
- Ergonomically designed with large, angled openings and oversized lip
- Lid remains open when tilted back
- Green bin includes removable divider
- With non-skid rubber feet and pre-drilled holes for wall mounting (hardware included)

| | Cat. No | Description | Colour | Dimensions, (w x d x h), mm | Pack qty |
|---|---|---|---|---|---|
| 1 | **11304065** | Benchtop dispensing bin, with removable divider | Neon green | 180 x 155 x 165 | 1 |
| 2 | **11314065** | Benchtop dispensing bin | Neon blue | 155 x 155 170 | 1 |




## Dispenser, ear plugs, Clearly Safe™

- Translucent acrylic dispenser for ear plugs
- Flip top lid for easy refilling and tilt open bottom lid for dispensing, which remain in place whilst the unit is in use
- Holds approximately 200 pairs of foam earplugs
- Can be set on a worktop or wall mounted (screws provided)

| Cat. No | Dimensions [w x d x h], mm | Pack qty |
|---|---|---|
| **11507473** | 203 x 203 x 406 | 1 |



## Dispensers, for Parafilm™

- Stores, dispenses and cuts Parafilm™ tape and labels

| | Cat. No | Description | Dimensions, (w x d x h), mm | Pack qty |
|---|---|---|---|---|
| 1 | **11937994** | Acrylic dispenser | 119 x 168 x 175 | 1 |
| 2 | **11350040** | ABS dispenser, blue | 171 x 120 x 144 | 1 |
| | **11865993** | ABS dispenser, green | 171 x 120 x 144 | 1 |
| | **11875993** | ABS dispenser, red | 171 x 120 x 144 | 1 |




## Dispenser, safety, Clearly Safe™ 3-in-1

- Three in one acrylic dispenser provides easy access to a variety of safety products
- The safety glass dispenser holds approximately 20 pairs of glasses and the ear plug dispenser approximately 50 to 100 pairs of foam ear plugs
- The dispenser can be positioned on a worktop or wall mounted (screws provided)

| Cat. No | Dimensions [w x d x h], mm |
|---|---|
| **11927984** | 406 x 203 x 406 |



## Dispensers, safety spectacles, Clearly Safe™

- Easy access translucent dispenser
- Flip open fill from top, with tilt-open bottom for ease of use
- Can be set on counter top or wall mounted

| Cat. No | Description |
|---|---|
| **11803470** | Spectacles dispenser, holds 4 to 6 pairs, 227mm x 162mm x 156mm |
| **11893460** | Spectacles dispenser, holds approximately 20 pairs, 203mm x 203mm x 406mm |



## Glove box holder, anti-microbial




- Ideal for use in cleanroom, hospital and microbiological work areas
- Infused with Microban™ to prevent growth of moulds and bacteria
- Manufactured from high impact, durable polystyrene which is resistant to harsh cleaning solutions
- Compatible with many different glove manufacturers standard 100 pack glove boxes
- Modular design, allows horizontal stacking
- Screws and anchors included

| Cat. No | Description | Dimensions, (w x d x h), mm | Pack qty |
|---|---|---|---|
| **11710644** | Glove box holders, anti-microbial | 254 x 156 x 97 | 1 |

## Glove box holders, acrylic




- Wall mounted, clear acrylic holders for easy dispensing of gloves
- Each holder includes a polyester foam insert to securely hold a range of glove box sizes
- Fit ensures easy removal of gloves
- Available in three sizes
- Wall mount screws included

| Cat. No | Description | Dimensions [w x d x h], mm | Pack qty |
|---|---|---|---|
| **11897102** | 1 box holder | 141 x 260 x 110 | 1 |
| **11807112** | 2 box holder | 295 x 260 x 110 | 1 |
| **11817112** | 3 box holder | 295 x 385 x 110 | 1 |

## Label station, Tough-Tags™




- Portable Tough-Tags™ station holds up to six standard size boxes of Tough-Tags™, Cryo-Babies™, Tough-Spots™ and TeenyTough-Spots
- Just drop the box into the station and feed the paper through the slot
- The acrylic station includes a writing surface, cutting edge and non-slip feet for easy dispensing. Counter sunk holes allow the unit to be wall mounted if required
- Tags sold separately (illustrated for display purposes only)

| Cat. No | Description | Pack qty |
|---|---|---|
| **11947994** | Tough-Tags™ station | 1 |

## Sample dippers, PTFE



- PTFE sampling container with a detachable 600mm long steel shaft encapsulated in PTFE

| Cat. No | Capacity, mL | Diameter, mm | Pack qty |
|---|---|---|---|
| **10156620** | 100 | 54 | 1 |
| **10369690** | 250 | 66 | 1 |
| **10536522** | 500 | 80 | 1 |
| **10126670** | 1,000 | 100 | 1 |

## Scoops, polypropylene



| Cat. No | Capacity, mL | Length, overall, mm | Pack qty |
|---|---|---|---|
| **11567852** | 25 | 135 | 5 |
| **11577852** | 50 | 160 | 5 |
| **11587852** | 100 | 200 | 5 |
| **11597852** | 250 | 260 | 1 |
| **11507862** | 500 | 315 | 1 |
| **11517862** | 1,000 | 385 | 1 |

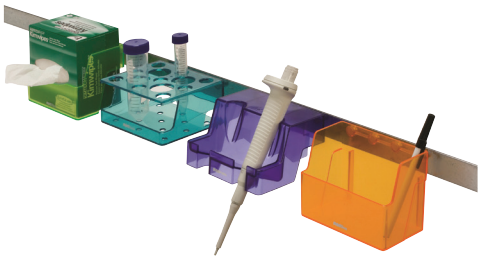
## Storage bin, bench top



- Workstation storage bin ideal for keeping most commonly used disposables in one location
- Clear acrylic unit has room to store boxes of gloves, Parafilm™, tubes, tips and other small laboratory and office items

| Cat. No | Description | Dimensions [w x d x h], mm | Pack qty |
|---|---|---|---|
| **11927994** | Bench top storage bin | 265 x 137 x 440 | 1 |

## Storage boxes, magnetic

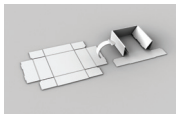


- Each rack is made of robust ABS plastic in a bright translucent colour
- Racks feature four powerful magnets for a secure hold on most metal surfaces
- MagRack™ holds four 50mL tubes and nine 15mL tubes
- MagWipe™ holds a 110mm x 210mm wipe box
- MagPette™ holds two pipettors and fits most pipettor brands
- MagBox™ holds miscellaneous accessories

| Cat. No | Description | Colour | Dimensions, (w x d x h), mm | Pack qty |
|---|---|---|---|---|
| **11942581** | Complete storage system, includes MagRack™, MagWipe™, MagPette™ and MagBox™ | Assorted | 522 x 393 x 102 | 4 |
| **11982581** | MagRack™ for 15mL and 50mL conical tubes | Blue | 131 x 112 x 64 | 1 |
| **11992581** | MagWipe™ tissue box holder | Green | 130 x 91 x 98 | 1 |
| **11932581** | MagPette™ pipettor holder | Purple | 131 x 112 x 76 | 1 |
| **11922591** | MagBox™ storage box | Orange | 130 x 78 x 102 | 1 |

## Storage tray, polypropylene, sample







- Constructed from corrugated polypropylene
- Moisture resistant, significantly reducing the chance of mold
- Lightweight and strudy to hold up to 24 full specimen containers
- Stackable with other tracys
- Removable dividers allow outer shell to be used for storage or transport of laboratory products
- Supplied flat-packed
- Pack includes: 10 trays and 10 dividers
- Disposable

| Cat. No | Wells | Well diameter, mm | Dimensions, mm (l x w x h) | Colour | Pack qty |
|---|---|---|---|---|---|
| **15376548** | 24 | 58 | 406 x 260 x 89 | White | 10 |

## Storage units, bench top



- Made from 3mm thick, clear acrylic, each container has hinged lids for rapid filling and dispensing

| Cat. No | Dimensions, (w x d x h), mm | No. of compartments | Pack qty |
|---|---|---|---|
| **11764834** | 184 x 194 x 232 | 1 | 1 |
| **11774834** | 150 x 177 x 368 | 2 | 1 |
| **11907994** | 210 x 160 x 210 | 3 | 1 |
| **11784834** | 287 x 170 x 217 | 4 | 1 |

## Tube rack storage, acrylic



- Tube rack storage for 80 well microtube racks
- Holds up to eight 80 well microtube racks filled with either 1.5mL or 2.0mL microtubes
- Plenty of room to slide the racks in and out

| Cat. No | Description | Dimensions, (w x d x h), mm | Pack qty |
|---|---|---|---|
| **11708214** | Tube rack storage vertical | 236 x 157 x 234 | 1 |
| **11710055** | Tube rack storage horizontal | 310 x 236 x 122 | 1 |

## Transport box, polycarbonate

- Ideal for transporting biological and clinical samples, as well as instruments and products that you want to keep clean and dry under testing environmental conditions
- Polycarbonate construction
- Available in three colours
- Silicone water-tight seal and three lid clasps provide secure closure
- Carry handle folds neatly into body space allowing the units to be stacked
- Lid opens a full 180°, allowing total access to contents and making it easier to clean
- Accommodates 13mm and 16mm tubes in a 72 place Delrin rack or similar sized rack
- Use the separators provided to create your own compartment sizes, or use empty to transport larger products and equipment
- Autoclavable




| Cat. No | Dimensions, (w x d x h), mm | Colour | Pack qty |
|---|---|---|---|
| **15165564** | 380 x 196 x 160 | Clear with blue handle | 1 |
| **15175564** | 380 x 196 x 160 | Red with red handle | 1 |
| **15155564** | 380 x 196 x 160 | Yellow with yellow handle | 1 |

## Trays, utility

- Lightweight solution for transporting tubes and smaller items



| Cat.No | Description | Pack qty |
|---|---|---|
| **11740634** | Utility tray with 13mm Delrin™ rack | 1 |
| **11750634** | Utility tray with 16mm Delrin™ rack | 1 |



FISHERBRAND SPOTLIGHT

Ideal for a wide variety of fluid handling applications, the Fisherbrand range of peristaltic pumps offers superior performance with precision and ease of use.




**Compact peristaltic pump, two channels, flow rate 0.8 to 14mL/min, 20 to 100rpm**
Cat. No 15367547




**Dispensing tubing pump, flow rate 14 to 4,000mL/min, 4 to 4,000rpm**
Cat. No 15307557

For further information on the products featured visit www.eu.fishersci.com/go/fisherbrand

# SYRINGES

Syringes are used in the laboratory for measuring and transferring liquids. They are used with syringe filters (refer to product spotlight below) for a broad range of applications including purification of tissue culture solutions and buffers and filtering of protein solutions and solvents.

## Syringes, plastic disposable

| Cat. No | Description | Capacity, mL | Pack qty |
|---|---|---|---|
| **12981021** | Luer-Lock | 2 | 100 |
| **12901031** | Luer-Lock | 5 | 100 |
| **12921031** | Luer-Lock | 10 | 100 |
| **12941031** | Luer-Lock | 20 | 100 |
| **12991021** | Luer-Slip | 2 | 100 |
| **12911031** | Luer-Slip | 5 | 100 |
| **12931031** | Luer-Slip | 10 | 100 |
| **12951031** | Luer-Slip | 20 | 100 |





FISHERBRAND SPOTLIGHT

With a wide range of membranes, pore sizes, housing diameters, and both sterile and non-sterile versions, the new Fisherbrand syringe filters make it easy to select the optimum filter whatever your application.

- High sample throughput
- Sterile and non-sterile options
- Polypropylene housing - strong and chemically resistant
- Suitable for a broad range of applications

| Fisherbrand membrane | Protein binding | Hydrophilic/hydrophobic | Chemical resistance | Applications |
|---|---|---|---|---|
| Hydrophilic PTFE | Low | Hydrophilic | High | Purification of HPLC organic and solvent/aqueous solutions |
| PES | Low | Hydrophilic | Low/medium | Purification of tissue culture solutions, buffers |
| PVDF | Low | Hydrophilic | Medium | Filtration of protein solutions |
| Hydrophobic PTFE | Low | Hydrophobic | High | Filtration of solvents |
| Nylon | Medium | Hydrophilic | Medium | Filtration of aqueous and solvent/aqueous mixtures |

| Cat. No | Diameter, mm | Membrane material | Pore size, µm | Sterile | Pack qty |
|---|---|---|---|---|---|
| **15206869** | 33 | PES | 0.2 | Yes | 50 |
| **15216869** | 33 | PES | 0.45 | Yes | 50 |
| **15181489** | 25 | Hydrophilic PTFE | 0.2 | No | 50 |
| **15101499** | 25 | Hydrophilic PTFE | 0.45 | No | 50 |
| **15121499** | 25 | Nylon | 0.2 | No | 50 |
| **15131499** | 25 | Nylon | 0.45 | No | 50 |
| **15141499** | 25 | PTFE | 0.2 | No | 50 |
| **15151499** | 25 | PTFE | 0.45 | No | 50 |
| **15161499** | 13 | PTFE | 0.2 | No | 100 |
| **15171499** | 13 | PTFE | 0.45 | No | 100 |
| **15181499** | 33 | PVDF | 0.2 | Yes | 50 |
| **15191499** | 33 | PVDF | 0.45 | Yes | 50 |









For further information on the products featured visit www.eu.fishersci.com/go/fisherbrand

# TUBES

See below for an extensive range of quality Fisherbrand test and centrifuge tubes, PCR and other microtubes, plus a comprehensive choice of tube caps and closures. Borosilicate glass is able to tolerate extremes of heat and cold (see 'Types of Glass' on pages 7) and as such tubes made from this material are recommended for any process involving the application of heat. Soda lime tubes are more suitable for general laboratory use only.

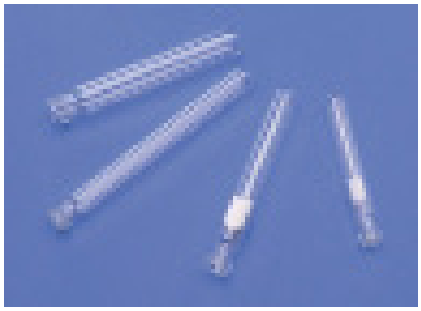
## Test tubes, borosilicate glass, round bottom, screw thread with polypropylene caps, disposable



- Ideal for tissue culture, bacteriology, clinical chemistry, blood typing and cross matching procedures
- With natural, linerless, polypropylene screw cap and marking spot
- Tubes packed in shrink wrapped trays with caps packed separately

| Cat. No | Diameter [external], mm | Length, mm | GPI thread finish | Pack qty |
|---|---|---|---|---|
| **11517413** | 13 | 100 | 13-415 | 1,000 |
| **11527413** | 16 | 100 | 15-415 | 1,000 |
| **10421541** | 16 | 125 | 15-415 | 1,000 |
| **11557413** | 16 | 150 | 15-415 | 1,000 |
| **11567413** | 20 | 125 | 18-415 | 500 |
| **11577413** | 20 | 150 | 18-415 | 500 |

## Test tubes, borosilicate glass, round bottom, screw thread without caps, disposable



- Ideal for tissue culture, bacteriology, clinical chemistry, blood typing and cross matching procedures
- Available with or without marking spot
- Tubes packed in shrink wrapped trays.

| Cat. No | Diameter [external], mm | Length, mm | GPI thread finish | Pack qty |
|---|---|---|---|---|
| **With marking spot** | | | | |
| **11587413** | 13 | 100 | 13-415 | 1,000 |
| **12327279** | 16 | 100 | 15-415 | 1,000 |
| **11527423** | 16 | 125 | 15-415 | 1,000 |
| **11537423** | 16 | 150 | 15-415 | 1,000 |
| **11547423** | 20 | 125 | 18-415 | 500 |
| **11557423** | 20 | 150 | 18-415 | 500 |
| **Without marking spot** | | | | |
| **11567423** | 13 | 100 | 13-415 | 1,000 |
| **11577423** | 16 | 150 | 15-415 | 1,000 |
| **11587423** | 20 | 150 | 18-415 | 500 |

## Test tubes, borosilicate glass, light walled, rimless



- Premium quality tubes with sturdy, uniform bottoms and consistent lengths
- The 10mm x 75mm and 12mm x 75mm sizes are suitable for cell washing procedures
- The 6mm x 50mm size is often referred to as a 'Durham tube'
- Approximate wall thickness is 0.6mm
- 10022253* is manufactured from flint glass

| Cat. No | Diameter [external], mm | Length, mm | Pack qty |
|---|---|---|---|
| **10022253*** | 6 | 50 | 1,000 |
| **12347279** | 10 | 75 | 1,000 |
| **11517403** | 12 | 75 | 1,000 |
| **11527403** | 13 | 100 | 1,000 |
| **11537403** | 15 | 85 | 1,000 |
| **11547403** | 16 | 100 | 1,000 |
| **11557403** | 16 | 125 | 1,000 |
| **11577403** | 16 | 150 | 1,000 |
| **11587403** | 18 | 150 | 500 |
| **11597403** | 20 | 150 | 500 |
| **11507413** | 25 | 150 | 500 |

## Test tubes, soda lime glass

- Soda lime glass test tubes
- All ISO 4142 (except 11912218, 11922218 and 11932218)

| Cat. No | Length, mm | Diameter [external], mm | Wall thickness, mm | Pack qty |
|---|---|---|---|---|
| **Light walled, rimmed** | | | | |
| **11922188** | 75 | 10 | 0.60 | 100 |
| **11932188** | 75 | 12 | 0.60 | 100 |
| **11942188** | 100 | 12 | 0.60 | 100 |
| **11952188** | 125 | 16 | 0.60 | 100 |
| **11962188** | 150 | 16 | 0.60 | 100 |
| **11972188** | 150 | 18 | 0.80 | 100 |
| **11962178** | 150 | 24 | 1.0 | 50 |
| **Light walled, "Durham" rimless** | | | | |
| **11912218** | 30 | 6.5 | 0.65 | 300 |
| **11922218** | 35 | 8.0 | 0.65 | 300 |
| **11932218** | 50 | 7.5 | 0.65 | 1,000 |
| **Medium walled, rimless** | | | | |
| **11982188** | 75 | 10 | 1.0 | 100 |
| **11992188** | 75 | 12 | 1.0 | 100 |
| **12961031** | 100 | 12 | 1.0 | 100 |
| **11902198** | 125 | 16 | 1.0 | 100 |
| **11912198** | 150 | 16 | 1.0 | 100 |
| **11922198** | 150 | 18 | 1.0 | 100 |
| **11972178** | 150 | 24 | 1.2 | 50 |



## Test tubes, borosilicate glass

- Borosilicate glass test tubes, grade 3.3
- All ISO 4142

| Cat. No | Length, mm | Diameter [external], mm | Wall thickness, mm | Pack qty |
|---|---|---|---|---|
| **Medium walled, rimmed, ISO 4142:2002** | | | | |
| **11932198** | 75 | 10 | 1.0 | 100 |
| **11942198** | 75 | 12 | 1.0 | 100 |
| **11952198** | 100 | 12 | 1.0 | 100 |
| **11962198** | 100 | 16 | 1.2 | 100 |
| **11972198** | 125 | 16 | 1.2 | 100 |
| **11982198** | 150 | 18 | 1.2 | 100 |
| **11992198** | 150 | 24 | 1.2 | 100 |
| **11982178** | 150 | 18 | 1.2 | 50 |
| **Medium walled, rimless, ISO 4142:2002** | | | | |
| **11912208** | 75 | 10 | 1.0 | 100 |
| **11922208** | 75 | 12 | 1.0 | 100 |
| **11932208** | 100 | 12 | 1.0 | 100 |
| **11942208** | 100 | 16 | 1.2 | 100 |
| **11952208** | 125 | 16 | 1.2 | 100 |
| **12088099** | 150 | 16 | 1.2 | 100 |
| **11972208** | 150 | 18 | 1.2 | 100 |
| **11992178** | 150 | 24 | 1.2 | 50 |



## Closures, for rimless test tubes, Bacti-Caps™

- Bacti-Caps™ provide a firm, positive culture tube closure allowing a controlled gas interchange, thus proving a more practical alternative to cotton wool plugs
- Suitable for all standard test tube sizes, they fit rimless and plastic tubes with an outside diameter of 13mm, 16mm, 19mm, 25mm and 38mm
- The three flexible fins moulded on the inner wall of each cap ensure a positive fit even when minor variations in tube size occur. Bacti-Caps™ are made from chemically resistant virgin plastic so they are unaffected by culture media, most acids, alkalis, alcohols and esters
- Colour coded



| Cat. No | Colour | Pack qty |
|---|---|---|
| **To fit tube with outer diameter 13mm** | | |
| **11507143** | Black | 100 |
| **11517143** | White | 100 |
| **11527143** | Red | 100 |
| **11537143** | Yellow | 100 |
| **11547143** | Blue | 100 |
| **11557143** | Green | 100 |
| **To fit tube with outer diameter 16mm** | | |
| **11567143** | Black | 100 |
| **11577143** | White | 100 |
| **11587143** | Red | 100 |
| **11597143** | Yellow | 100 |
| **11507153** | Blue | 100 |
| **11517153** | Green | 100 |
| **To fit tube with outer diameter 19mm** | | |
| **11527153** | Black | 100 |
| **11537153** | White | 100 |
| **11547153** | Red | 100 |
| **11552652** | Yellow | 100 |
| **11562652** | Blue | 100 |
| **11572652** | Green | 100 |
| **To fit tube with outer diameter 25mm** | | |
| **11582652** | Black | 100 |
| **11592652** | White | 100 |
| **11502662** | Red | 100 |
| **11512662** | Yellow | 100 |
| **11522662** | Blue | 100 |
| **11532662** | Green | 100 |
| **To fit tube with outer diameter 38mm** | | |
| **11542662** | Natural | 10 |

## Caps, phenolic, rubber liner, for screw thread test tubes

- Made of a special phenolic material (wood filled) and very resistant to the effects of temperature and steam encountered in autoclaving
- A cemented-in rubber liner is provided, and the cement used has been selected to retain its adhesive properties during autoclaving.



| Cat. No | GPI thread finish | Pack qty |
|---|---|---|
| **11547133** | 13-415 | 1,000 |
| **12337279** | 15-415 | 1,000 |
| **11567133** | 18-415 | 1,000 |

## Caps, polypropylene, linerless, for screw thread test tubes

- One-piece construction with a unique inner sealing ring.



| Cat. No | GPI thread finish | Pack qty |
|---|---|---|
| **11577133** | 13-415 | 1,000 |
| **11587133** | 15-415 | 1,000 |
| **11597133** | 18-415 | 500 |

## Caps, polypropylene, welded PTFE/silicone liner, for screw thread test tubes



- Ideal for repeated autoclaving.
- The welded liner eliminates glue contamination.

| Cat. No | GPI thread finish | Pack qty |
|---|---|---|
| **11522672** | 13-415 | 288 |
| **11532672** | 15-415 | 288 |
| **11542672** | 18-415 | 288 |

## Tubes, microcentrifuge, PCR*



- Polypropylene tubes with attached caps
- Available with flat or dome caps
- Compatible with standard 0.2mL or 0.5mL thermal cycler blocks
- Thin walled
- DNase and RNase free

| Cat. No | Description | Volume, mL | Pack qty |
|---|---|---|---|
| **11889241** | Tubes, flat capped | 0.2 | 1,000 |
| **12194142** | Tubes, flat capped | 0.5 | 1,000 |
| **11899221** | Tubes, dome capped | 0.2 | 1,000 |
| **11849231** | 8 tube strip, dome capped | 0.25 | 250 |
| **12179770** | 8 tube strip, flat capped | 0.25 | 250 |
| **11849241** | 8 tube strip, without caps | 0.25 | 250 |
| **Accessories** | | | |
| **11849251** | 8 strip, flat caps | | 250 |
| **11859251** | 8 strip, domed caps | | 250 |

*Polymerase Chain Reaction (PCR) is a process covered by patents owned by Hoffmann-La Roche

## Tubes, microtube



1



2

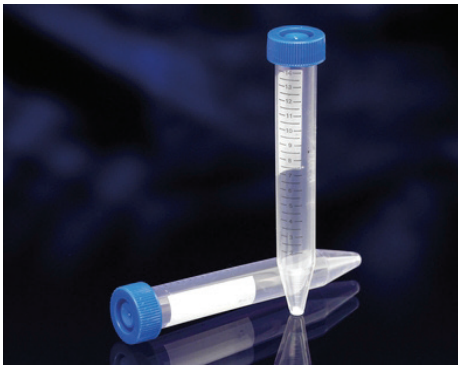
- Use between -80°C to 120°C
- Flat cap
- Withstand speeds up to 30,000xg
- DNase, RNase free
- Polypropylene
- Graduation moulded
- Autoclavable
- Non-sterile

| | Cat. No | Capacity, mL | Colour | Dia. x height, mm | Max. rcf (xg) | Pack qty |
|---|---|---|---|---|---|---|
| | **Graduated microtube** | | | | | |
| 1 | **11916955** | 0.6 | Natural | 8 x 30 | 30,000 | 500 |
| | **11926955** | 1.5 | Natural | 11 x 40 | 26,000 | 500 |
| | **11393613** | 2.0 | Natural | 11 x 40 | 25,000 | 500 |
| | **Graduated safelock microtube** | | | | | |
| 2 | **11976955** | 0.6 | Natural | - | 30,000 | 1,000 |
| | **11706467** | 1.5 | Natural | - | 26,000 | 500 |
| | **11966955** | 1.5 | Mix | - | 26,000 | 500 |
| | **11956955** | 2.0 | Natural | - | 25,000 | 500 |
| | **Graduated low binding microtube** | | | | | |
| 3 | **11996955** | 0.6 | Natural | 10 x 30 | - | 500 |
| | **11986955** | 1.5 | Natural | 13 x 40 | - | 250 |
| | **11906965** | 2.0 | Natural | 13 x 40 | - | 250 |



3

## Tubes, centrifuge, 15mL and 50mL






- 15mL and 50mL capacity
- Available in PP and PET
- Black graduation
- White marking area
- Flat cap and plug seal cap
- Gamma irradiation sterilisation
- Bulk or rack version

### Bulk

| Cap flat top | Cap plug seal | Capacity, mL | Max. rcf, xg | Material | Dia. x H, mm | Sterile | Inner pack qty | Pack qty |
|---|---|---|---|---|---|---|---|---|
| **11755075** | **11765075** | 15 | 6,000 | PP | 17 x 119 | Yes | 25 | 500 |
| **11512303** | **11809650** | 50 | 9,400 | PP | 29 x 114 | Yes | 25 | 500 |
| - | **11829650** | 50 | 9,400 | PP | 29 x 114 | No | 25 | 500 |

### Rack

| Cap flat top | Cap plug seal | Capacity, mL | Max. rcf, xg | Material | Dia. x H, mm | Sterile | Inner pack qty | Pack qty |
|---|---|---|---|---|---|---|---|---|
| - | **11879640** | 15 | 1,800 | PET | 17 x 119 | Yes | 50 | 500 |
| **11849650** | **11889640** | 15 | 6,000 | PP | 17 x 119 | Yes | 50 | 500 |
| - | **11839650** | 50 | 1,800 | PET | 29 x 114 | Yes | 50 | 500 |
| **11819650** | **11899640** | 50 | 9,400 | PP | 29 x 117 | Yes | 50 | 500 |



FISHERBRAND SPOTLIGHT

For the mixing of small volumes of liquids, the space-saving Fisherbrand mini vortexer and the unique infrared sensing system of the Wizard vortex mixer are essentials for any lab.

Elsewhere in your lab, Fisherbrand cell strainers provide a fast, simple alternative to gauze filtration when dissociating cells from clumps or primary tissues. Produces more uniform single cell suspensions. Available in three mesh sizes: 40µm, 70µm and 100µm. Sterile and individually packed.

**Tube racks**
pages 102 to 107

**Wizard Vorter Mixer**
Cat. No 11746744

**Mini Vortexer**
Cat. No 15212985







**Cell Strainers**
Cat. No 11587522, 40µm
Cat. No 11597522, 70µm
Cat. No 11517532, 100µm

**Mini Vortexer, variable speed**
Cat. No 15494960

For further information on the products featured visit www.eu.fishersci.com/go/fisherbrand

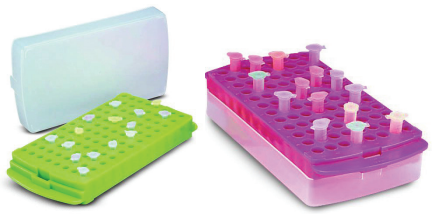
# TUBE RACKS

Designed not only to hold your tubes but also to add colour to any lab!

## Tube racks, microtubes, 96 well, assorted colours

- Reversible: 0.5mL or 1.5 to 2mL microtubes
- Alphanumeric coding
- With clear cover to protect the tubes and allow stacking of several racks
- Dimension (l x w x h), mm: 246 x 121 x 50

| Cat. No | Description | Pack qty |
|---|---|---|
| **11728174** | 96 well reversible rack, assorted colours (blue, green, pink, yellow and orange) | 5 |
| **11738174** | 96 well reversible rack, natural | 5 |
| **11958014** | 96 well reversible rack, blue | 5 |
| **11968014** | 96 well reversible rack, green | 5 |
| **11748174** | 96 well reversible rack, pink | 5 |
| **11978014** | 96 well reversible rack, yellow | 5 |



## Tube racks, microcentrifuge, polypropylene, PCR*

- Sturdy polypropylene racks ideal for pre- or post-PCR* sampling applications
- With removable hinged lid accommodates individual 0.2mL tubes or strips of 8 or 12 tubes
- Tube wells are easily identified with imprinted numbers and letters
- Dimensions (l x w x h), mm: 130 x 98 x 33
- Autoclavable

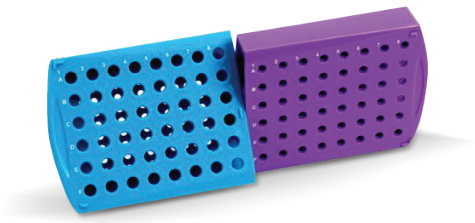
| Cat. No | Description | Pack qty |
|---|---|---|
| **11710344** | 96 well PCR* rack, assorted colours (blue, green, pink, yellow and orange) | 5 |
| **11527593** | 96 well PCR* rack, natural | 5 |
| **11948074** | 96 well PCR* rack, green | 5 |
| **11958074** | 96 well PCR* rack, blue | 5 |



## Tube rack, Rota-Rack Duo, PCR*

- Rotating rack holds 48 x 0.2mL, 0.5mL and 1.5mL PCR tubes
- Polypropylene with imprinted alphanumeric grid aids tube retrieval
- Dimensions (l x w x h), mm: 296 x 118 x 34

| Cat. No | Description | Pack qty |
|---|---|---|
| **11304095** | Rota-Rack™ Duo | 1 |



## Tube rack, microcentrifuge, polypropylene, three way

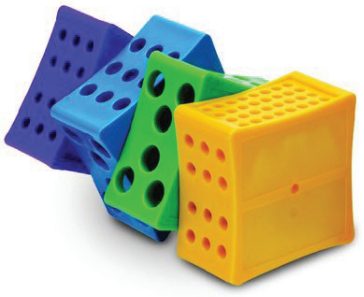
- Three way polypropylene racks connect to one another on either end
- Convenient finger slots are moulded onto the rack and each of the three tiers accommodates a different size tube
- Lowest level has 24 wells to hold individual 0.2mL tubes or strips of 8 or 12 tubes
- Middle tier has 14 wells to hold 0.5mL tubes
- Top tier has 12 wells to hold 1.5mL tubes
- Autoclavable
- Dimensions (l x w x h), mm: 164 x 123 x 62
- Supplied in assorted colours (blue, green, purple, yellow, and orange)

| Cat. No | Description | Pack qty |
|---|---|---|
| **11928084** | Microtube rack three way, assorted colours (blue, green, purple, yellow, orange) | 6 |



*Polymerase Chain Reaction (PCR) is a process covered by patents owned by Hoffmann-La Roche

## Tube racks, Rota Rack™



- Each module of the small Rota-Rack™ holds 6 x 15mL tubes, 9 x 1.5/2mL tubes, 12 x 0.5/0.6mL tubes or 32 independent 0.2mL PCR* tubes or 4 x 8 tube strips
- Each rack has modules in green, pink, blue and yellow, and is fully autoclavable

| Cat. No | Description | Pack qty |
|---|---|---|
| **11394085** | Rota-Rack™, small | 1 |
| **11384085** | Rota-Rack™, large | 1 |

*Polymerase Chain Reaction (PCR) is a process covered by patents owned by Hoffmann-La Roche

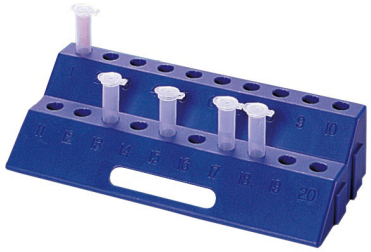
## Tube racks, four way



- Each rack can hold 4 x 50mL conical tubes, 12 x 15mL conical tubes, 32 x 1.5mL microtubes or 32 x 0.5mL microtubes
- Dimensions (l x w x h), mm: 174 x 95 x 52
- Autoclavable

| Cat. No | Description | Pack qty |
|---|---|---|
| **11750334** | Four way tube rack, natural | 5 |
| **11770045** | Four way tube rack, blue | 5 |
| **11760334** | Four way tube rack, green | 5 |
| **11780045** | Four way tube rack, pink | 5 |
| **11770334** | Four way tube rack, yellow | 5 |
| **11790045** | Four way tube rack, orange | 5 |
| **11700055** | Four way tube rack, assorted colours (blue, green, pink, yellow and orange) | 5 |

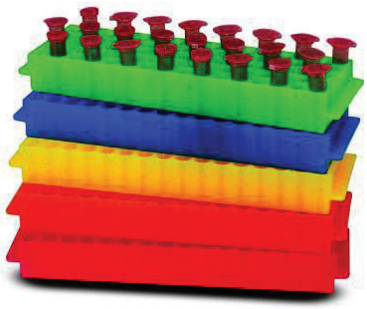
## Tube rack, microcentrifuge, polypropylene, 20 well



- Polypropylene racks for storing 20 tubes
- Racks lock together on each side
- Tubes are easily removed using 'hold-it' finger slot on the front of the rack
- Dimensions (l x w x h), mm: 213 x 90 x 50
- Autoclavable

| Cat. No | Description | Pack qty |
|---|---|---|
| **11784016** | Microtube rack 20 well, blue | 6 |

## Tube racks, microcentrifuge, polypropylene, 80 well



- Polypropylene 80 well microtube racks ideal for freezer storage
- Racks hold 1.5mL to 2mL microtubes in a 5 x 16 array. Tubes sit in large wells with conical bottoms
- Dimensions (l x w x h), mm: 225 x 67 x 28
- Autoclavable

| Cat. No | Colour | Pack qty |
|---|---|---|
| **11720344** | Natural | 5 |
| **11908084** | Orange | 5 |
| **11968074** | Blue | 5 |
| **11978074** | Green | 5 |
| **11988074** | Pink | 5 |
| **11998074** | Yellow | 5 |
| **11918084** | Red | 5 |
| **11728084** | Assorted colours (one of each colour) | 5 |

## Tube racks Pop-Up™, polypropylene

- Designed to help organise 15mL and 50mL tubes
- Close flat for compact storage
- Pop up for quick use
- Easy open and close action
- Racks can be stacked in open or closed position
- With imprinted grid aids quick retrieval
- Dimensions (l x w x h), mm: 255 x 137 x 72 (when expanded)
- Not recommended for autoclaving



| Cat. No | Accommodates | Wells | Well diameter, mm | Dimensions, mm (l x w x h), expanded | Dimensions, mm (l x w x h), collapsed | Pack qty |
|---|---|---|---|---|---|---|
| **11710634** | 15mL and 50mL tubes | 21/12 | 17/30 | 255 x 137 x 72 | 255 x 137 x 21 | 2 |
| **12693466** | 15mL tubes | 45 | 17 | 255 x 137 x 72 | 255 x 137 x 21 | 2 |
| **12603476** | 50mL tubes | 18 | 30 | 255 x 137 x 72 | 255 x 137 x 21 | 2 |

## Tube racks, adapt-a-rack™





- Each slot adapts to accommodate 5 to 50mL tubes sizes and holds them in a firm upright position
- Made from POM
- Racks can be linked together for additional holding capacity
- Open sides allow for label viewing
- Flat base to hold tubes upright
- Linked racks should be supported underneath when carrying
- Available in a solid or a combination of colours for easy coding identification
- Autoclavable

| Cat. No | Accommodates | Wells | Well diameter, mm | Diameter, mm (l x w x d) | Colour | Pack qty |
|---|---|---|---|---|---|---|
| **15300370** | 5 to 50mL tubes | 4 | 12 to 30 | 181 x 56 x 76 | Blue/green | 2 |
| **15320370** | 5 to 50mL tubes | 4 | 12 to 30 | 181 x 56 x 76 | Blue/yellow | 2 |
| **15330370** | 5 to 50mL tubes | 4 | 12 to 30 | 181 x 56 x 76 | Pink/white | 2 |
| **15340370** | 5 to 50mL tubes | 4 | 12 to 30 | 181 x 56 x 76 | Blue/blue | 2 |
| **15350370** | 5 to 50mL tubes | 4 | 12 to 30 | 181 x 56 x 76 | White/white | 2 |
| **15360370** | 5 to 50mL tubes | 4 | 12 to 30 | 181 x 56 x 76 | Pink/pink | 2 |
| **15380370** | 5 to 50mL tubes | 4 | 12 to 30 | 181 x 56 x 76 | Yellow/yellow | 2 |
| **15390370** | 5 to 50mL tubes | 4 | 12 to 30 | 181 x 56 x 76 | Green/green | 2 |

## Tube rack, centrifuge, 50mL



- Sturdy single tube storage for 50mL tubes
- Interlocking racks can be used as single stand-alone rack or interlinked to form a line
- Fully autoclavable
- Moulded circular base ring keeps conical or round bottom tubes in place
- Dimensions (l x w x h), mm: 83 x 70 x 67 (single unit)

| Cat. No | Description | Pack qty |
|---|---|---|
| **11717285** | Interlocking centrifuge tube rack, polypropylene, assorted colours (blue, green, yellow, pink, orange) | 5 |

## Tube rack, 1 well 50mL, Friction-Fit



- Slides smoothly across the bench
- Snugly fits tubes from 27.5mm to 29.0mm in diameter
- Measures 92mm diameter and 30mm high
- Not recommended for autoclaving

| Cat. No | Description | Pack qty |
|---|---|---|
| **11354055** | Polystyrene Friction-Fit rack | 5 |

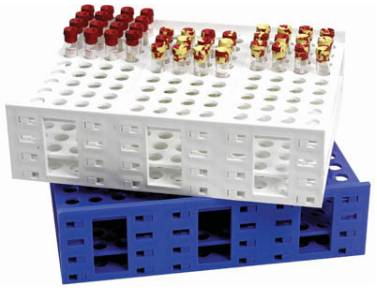
## Tube rack, centrifuge, adjustable



- Adjustable opening for different diameter tubes
- Holds 12 tubes from 15mL to 50mL (16mm to 30mm diameter)
- Size of opening can be changed by turning handle or by direct insertion of tube
- With handles for easy transportation
- Dimensions (l x w x h), mm: 194 x 140 x 51
- Not recommended for autoclaving

| Cat. No | Description | Pack qty |
|---|---|---|
| **11987994** | Tube rack, centrifuge, adjustable | 1 |

## Tube racks, Mega Rack™



- Mega Rack™ are great in clinical labs for storage of large groupings of samples enabling you to place different test groupings into one rack
- Made from sturdy, lightweight material for easy transport
- Include an alphanumeric grid for quick location and retrieval of tubes
- Available in two sizes to fit standard 10 to 13mm or 13 to 16mm tubes

| Cat. No | Tube size | Type | No. wells | Colour | Pack qty |
|---|---|---|---|---|---|
| **11720634** | 10 to 13mm | Single | 216 | Blue | 1 |
| **11730634** | 13 to 16mm | Single | 120 | Blue | 1 |

## Tube rack, microcentrifuge, polypropylene, cube



- User friendly cube racks
- Slide the polypropylene racks together in multiple orientations - work with different sized tubes at the same time
- Each rack can hold 4 x 50mL tubes, 10 x 15mL conical tubes, 12 x 75mL or 100mL tubes or 16 x 1.5mL to 2.0mL tubes
- Autoclavable
- Dimensions (l x w x h), mm: 108 x 113 x 113

| Cat. No | Description | Pack qty |
|---|---|---|
| **11784726** | Cube rack, assorted colours (one each of blue, green, yellow, orange, and pink) | 5 |

## Test tube racks

- Made from Delrin™ fibreglass-reinforced polyoxymethylene (POM)
- Tough and more highly resistant to acids, bases, solvents and heat
- Offers the highest chemical and heat resistance (-40°C to +140°C)
- Available in half and full rack sizes for five different tube diameters
- Moulded in a single, continuous piece so no assembly required
- Autoclavable

| Cat. No | Tubes | Wells | Well diameter mm | L x W x H, mm | Colour | Pack qty |
|---|---|---|---|---|---|---|
| **Full size** | | | | | | |
| **15340380** | 5 to 10 mL | 72 | 13 | 104 x 202 x 59 | White | 1 |
| **15390380** | 5 to 10 mL | 72 | 16 | 127 x 250 x 70 | White | 1 |
| **15340390** | 10 to 18mL | 40 | 20 | 100 x 252 x 83 | White | 1 |
| **15370390** | 10 to 18mL | 40 | 25 | 120 x 300 x 92 | White | 1 |
| **15310400** | 15 to 50mL | 24 | 30 | 110 x 282 x 85 | White | 1 |
| **15350380** | 5 to 10 mL | 72 | 13 | 104 x 202 x 59 | Blue | 1 |
| **15300390** | 5 to 10 mL | 72 | 16 | 127 x 250 x 70 | Blue | 1 |
| **12327629** | 5 to 30mL | 40 | 20 | 100 x 252 x 83 | Blue | 1 |
| **15380390** | 5 to 30mL | 40 | 25 | 120 x 300 x 92 | Blue | 1 |
| **10257963** | 15 to 50mL | 24 | 30 | 110 x 282 x 85 | Blue | 1 |
| **15360380** | 5 to 10 mL | 72 | 13 | 104 x 202 x 59 | Green | 1 |
| **15310390** | 5 to 10 mL | 72 | 16 | 127 x 250 x 70 | Green | 1 |
| **15350390** | 10 to 18mL | 40 | 20 | 100 x 252 x 83 | Green | 1 |
| **15390390** | 10 to 18mL | 40 | 25 | 120 x 300 x 92 | Green | 1 |
| **15330400** | 15 to 50mL | 24 | 30 | 110 x 282 x 85 | Green | 1 |
| **15370380** | 5 to 10 mL | 72 | 13 | 104 x 202 x 59 | Magenta | 1 |
| **15320390** | 5 to 10 mL | 72 | 16 | 127 x 250 x 70 | Magenta | 1 |
| **15360390** | 10 to 18mL | 40 | 20 | 100 x 252 x 83 | Magenta | 1 |
| **15300400** | 10 to 18mL | 40 | 25 | 120 x 300 x 92 | Magenta | 1 |
| **15350400** | 15 to 50mL | 24 | 30 | 110 x 282 x 85 | Magenta | 1 |
| **15380380** | 5 to 10 mL | 72 | 13 | 104 x 202 x 59 | Yellow | 1 |
| **15330390** | 5 to 10 mL | 72 | 16 | 127 x 250 x 70 | Yellow | 1 |
| **15360400** | 15 to 50mL | 24 | 30 | 110 x 282 x 85 | Yellow | 1 |
| **Half size** | | | | | | |
| **15390400** | 5 to 10 mL | 36 | 13 | 104 x 104 x 59 | White | 1 |
| **15340410** | 5 to 10 mL | 36 | 16 | 127 x 127 x 70 | White | 1 |
| **15310420** | 10 to 18mL | 20 | 20 | 100 x 127 x 83 | White | 1 |
| **15380420** | 10 to 18mL | 16 | 25 | 120 x 122 x 92 | White | 1 |
| **15330430** | 15 to 50mL | 9 | 30 | 110 x 110 x 85 | White | 1 |
| **15300410** | 5 to 10 mL | 36 | 13 | 104 x 104 x 59 | Blue | 1 |
| **15360410** | 5 to 10 mL | 36 | 16 | 127 x 127 x 70 | Blue | 1 |
| **15340420** | 10 to 18mL | 20 | 20 | 100 x 127 x 83 | Blue | 1 |
| **15300430** | 10 to 18mL | 16 | 25 | 120 x 122 x 92 | Blue | 1 |
| **12317629** | 15 to 50mL | 9 | 30 | 110 x 110 x 85 | Blue | 1 |
| **15310410** | 5 to 10 mL | 36 | 13 | 104 x 104 x 59 | Green | 1 |
| **15380410** | 5 to 10 mL | 36 | 16 | 127 x 127 x 70 | Green | 1 |
| **15350420** | 10 to 18mL | 20 | 20 | 100 x 127 x 83 | Green | 1 |
| **15310430** | 10 to 18mL | 16 | 25 | 120 x 122 x 92 | Green | 1 |
| **15340430** | 15 to 50mL | 9 | 30 | 110 x 110 x 85 | Green | 1 |
| **15330410** | 5 to 10 mL | 36 | 13 | 104 x 104 x 59 | Magenta | 1 |
| **15390410** | 5 to 10 mL | 36 | 16 | 127 x 127 x 70 | Magenta | 1 |
| **15370420** | 10 to 18mL | 20 | 20 | 100 x 127 x 83 | Magenta | 1 |
| **15320430** | 10 to 18mL | 16 | 25 | 120 x 122 x 92 | Magenta | 1 |
| **15360430** | 15 to 50mL | 9 | 30 | 110 x 110 x 85 | Magenta | 1 |
| **Polypropylene full size** | | | | | | |
| **15370430** | 5 to 10mL | 72 | 13 | 104 x 202 x 59 | White | 8 |
| **15310440** | 5 to 10mL | 72 | 16 | 127 x 250 x 70 | White | 8 |
| **15380430** | 5 to 10mL | 72 | 13 | 104 x 202 x 59 | Blue | 8 |
| **15320440** | 5 to 10mL | 72 | 16 | 127 x 250 x 70 | Blue | 8 |
| **15390430** | 5 to 10mL | 72 | 13 | 104 x 202 x 59 | Green | 8 |
| **15340440** | 5 to 10mL | 72 | 16 | 127 x 250 x 70 | Green | 8 |
| **15300440** | 5 to 10mL | 72 | 13 | 104 x 202 x 59 | Magenta | 8 |
| **15360440** | 5 to 10mL | 72 | 16 | 127 x 250 x 70 | Magenta | 8 |





## Tube racks, centrifuge, Puzzle Rack

- Two sided racks for use with 1.5mL, 2.0mL, 15mL and 50mL tubes
- Puzzle shaped racks can be used individually or connected to a square or row configuration
- Imprinted references aid easy retrieval of tubes
- Assorted colours - yellow, blue, green and orange
- Racks can be stacked when not in use
- Polypropylene
- Dimensions, mm: 151 x 135 x 66



| Cat. No | Description | Pack qty |
|---|---|---|
| **11324095** | Puzzle Rack | 4 |

## Tube racks, floating

- Brightly coloured, HDR foam racks are ideal for floating tubes in water baths, tubs or beakers
- Closed cell foam resists water absorption so racks can be washed and reused
- Blue round rack features unique 'X' slits to hold a variety of tube sizes
- Include detachable carrying handles to lift samples easily
- Not recommended for autoclaving



| Cat. No | Description | Colour | Pack qty |
|---|---|---|---|
| **11724736** | Holds 24 x 1.5mL to 2.0mL tubes | Yellow | 5 |
| **11704736** | Holds 4 x 50mL tubes | Green | 5 |
| **11714736** | Holds 8 x 15mL tubes | Blue | 5 |
| **11736565** | Holds 18 x 0.2mL to 2.0mL tubes, round rack | Blue | 5 |
| **11736565** | Holds 18 0.2mL/0.5mL/1.5 to 2.0mL tubes | Blue | 5 |



FISHERBRAND SPOTLIGHT

The Fisherbrand Mini Centrifuge is ideal for quick spin downs, microfilter cell separations, PCR* and HPLC samples. It is compact and easy to use and comes as standard with a host of accessories.

Achieve maximal speed with minimum space. The Fisherbrand Midi Centrifuge is ideal for protocols calling for fast spins with a higher RCF requirement. Ideal for microfilter cell separations, PCR*, clinical applications and HPLC protocols.

Compact, economical high-speed Fisherbrand Microcentrifuges are available in two models, either a ventilated or a refrigerated version. They feature easy-to-use controls with digital display and provide efficient sample processing as well as a generous sample capacity.




**Micro 17R refrigerated model**
Cat. No 11526873

**Midi Centrifuge**
Cat. No 12972041

**Mini Centrifuge**
Cat. No 15358266

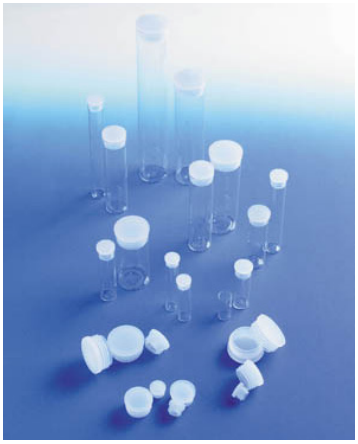
**Micro 17 ventilated model**
Cat. No 11516873

For further information on the products featured visit www.eu.fishersci.com/go/fisherbrand

# VIALS

Fisherbrand offers a comprehensive range of dram, snap top, specimen and scintillation vials, of consistent and dependable quality and perfect for small sample collection, analysis or storage. This range also includes specialty diagnostic vials, available in both clear and amber, suitable for both freeze-drying and autoclaving, and dropper vials ideal for a range of diagnostic, pharmaceutical and healthcare applications.

## Vials, specimen, glass, push-in cap



- Type III clear soda lime glass, straight sided, flat bottom, polyethylene supplied with push-in cap

| Cat. No | Height, mm | Diameter, mm | Capacity, mL | Pack qty |
|---|---|---|---|---|
| **14801582** | 38 | 10 | 2 | 250 |
| **14831582** | 38 | 12 | 3 | 100 |
| **14841582** | 50 | 10 | 3 | 250 |
| **14811582** | 50 | 12 | 4 | 100 |
| **14821582** | 50 | 19 | 8 | 100 |
| **14851582** | 50 | 25 | 16 | 100 |
| **14861582** | 75 | 16 | 10 | 100 |
| **14871582** | 75 | 19 | 13.5 | 100 |
| **14881582** | 75 | 25 | 25 | 100 |
| **14891582** | 100 | 12 | 9 | 100 |
| **14801592** | 100 | 25 | 35 | 100 |

## Vials, specimen, glass, rolled rim, suitable for snap-on and push-in caps



- Manufactured from high quality Type 1B neutral glass
- Versatile capacity range from 7mL to 30mL
- Particularly suitable for the storage of powders and 'dry' samples

| Cat. No | Height, mm | Diameter, mm | Cap size, mm | Capacity, mL | Pack qty |
|---|---|---|---|---|---|
| **15364769** | 34 | 23 | 22 | 7 | 190 |
| **15374769** | 46 | 23 | 22 | 10.5 | 190 |
| **15384769** | 48 | 23 | 22 | 14 | 162 |
| **15394769** | 66 | 23 | 22 | 21 | 162 |
| **15304779** | 72 | 27 | 22 | 28 | 140 |

**Caps, natural polyethylene**

| Cat. No | Description | Cap size, mm | Pack qty |
|---|---|---|---|
| **15344789** | Caps, snap on | 22 | 300 |
| **15354789** | Caps, push in | 22 | 300 |

## Vials, specimen, glass, for use with push-in caps

- Manufactured from clear Type 1B neutral glass
- Suitable for media, diagnostic, storage, display and sample collection applications

| Cat. No | Height, mm | Diameter, mm | Cap size, mm | Dram volume, mm | Capacity, mL | Pack qty |
|---|---|---|---|---|---|---|
| **15314779** | 36 | 11 | 8 | 0.5 | 1.75 | 882 |
| **15324779** | 46 | 12 | 8 | 1 | 3.5 | 666 |
| **15334779** | 58 | 17 | 10 | 2 | 7 | 399 |

| Cat. No | Material/liner | Cap size, mm | Pack qty |
|---|---|---|---|
| **Caps, polyethylene push in, natural** | | | |
| **15364789** | Polyethylene | 8 | 300 |
| **15374789** | Polyethylene | 10 | 300 |

## Vials, specimen, glass, screw neck

- Manufactured from clear Type 1B neutral glass
- Squat and tall form options with standard neck sizes
- 1 dram equates to approximately 3.55mL (or 1/8 floz)
- Suitable for media, diagnostic, storage, display and sample collection applications



| Cat. No | Height, mm | Diameter, mm | Cap size, mm | Dram volume, mm | Capacity, mL | Pack qty |
|---|---|---|---|---|---|---|
| **Squat form vial** | | | | | | |
| **15344779** | 42 | 20 | 18 | 2 | 7 | 264 |
| **15354779** | 58 | 23 | 22 | 4 | 14 | 190 |
| **15364779** | 72 | 27 | 28 | 8 | 28 | 140 |
| **Tall form vial** | | | | | | |
| **15374779** | 36 | 11 | 10 | 0.5 | 1.75 | 882 |
| **15384779** | 46 | 12 | 10 | 1 | 3.5 | 666 |
| **15394779** | 58 | 17 | 15 | 2 | 7 | 399 |
| **15304789** | 67 | 17 | 15 | 3 | 10.5 | 399 |
| **15314789** | 72 | 20 | 18 | 4 | 14 | 264 |
| **15324789** | 86 | 21 | 18 | 6 | 21 | 231 |
| **15334789** | 96 | 23 | 22 | 8 | 28 | 190 |

| Cat. No | Material/liner | Cap size, mm | Pack qty |
|---|---|---|---|
| **Caps, polypropylene screw with foil liners, black** | | | |
| **15384789** | Polypropylene/AFM | 10 | 300 |
| **15394789** | Polypropylene/AFM | 15 | 300 |
| **15304799** | Polypropylene/AFM | 18 | 300 |
| **15314799** | Polypropylene/AFM | 22 | 300 |
| **15324799** | Polypropylene/AFM | 28 | 300 |

## Vials, clear tubular glass, 7mL bijou and 28mL, universal, with fitted polypropylene screw caps



- Type III clear soda glass vials with screw neck and fitted PP cap

| Cat. No | Height, mm | Diameter, mm | Capacity, mL | Neck finish | Tray quantity | Pack qty |
|---|---|---|---|---|---|---|
| **14803562** | 43 | 20 | 7 | 18R3 | 1 x tray 245 | 245 |
| **14813562** | 43 | 20 | 7 | 18R3 | 7 x trays 245 | 1,715 |
| **14823562** | 82 | 27 | 28 | 24R3 | 1 x tray 125 | 125 |
| **14833562** | 82 | 27 | 28 | 24R3 | 4 x trays 125 | 500 |

## Vials, clear moulded glass, pathology media, with fitted screw caps



| Cat. No | Height, mm | Diameter, mm | Capacity, mL | Neck finish | Pack qty |
|---|---|---|---|---|---|
| **Type I clear neutral glass vials with screw neck and fitted PP cap** | | | | | |
| **14843562** | 50 | 22 | 7 | 20R3 | 288 |
| **14863562** | 83 | 28 | 28 | 28R3 | 144 |
| **Type I clear neutral glass vials with screw neck and fitted aluminium rubber lined caps** | | | | | |
| **14873562** | 50 | 22 | 7 | 20R3 | 20 |
| **14853562** | 50 | 22 | 7 | 20R3 | 288 |
| **14883562** | 65 | 28 | 14 | 20R3 | 20 |
| **14893562** | 65 | 28 | 14 | 20R3 | 288 |
| **14803572** | 83 | 28 | 28 | 28R3 | 20 |
| **14823572** | 83 | 28 | 28 | 28R3 | 144 |

## Vials, clear neutral glass, Type I, with dropper assembly



- Clear Type I neutral glass vials with screw neck
- Supplied with dropper assembly comprising clear glass dropper tube fitted to a polypropylene cap with natural rubber bulb
- Droppers are assembled but not fitted to vials (supplied in a separate bag)
- Dropper assemblies for 3mL and 4.5mL vials have white caps and bulbs, 5mL and 10mL vials have black caps and bulbs

| Cat. No | Height, mm | Diameter, mm | Capacity, mL | Neck diameter, mm | Pack qty |
|---|---|---|---|---|---|
| **14813572** | 36 | 16 | 3mL vial, 40µL dropper | 14.5 | 50 |
| **14833572** | 36 | 16 | 3mL vial, 40µL dropper | 14.5 | 374 |
| **14843572** | 47 | 16 | 4.5mL vial, 40µL dropper | 14.5 | 50 |
| **14853572** | 47 | 16 | 4.5mL vial, 40µL dropper | 14.5 | 374 |
| **14863572** | 43 | 20 | 5mL vial, 50µL dropper | 18 | 40 |
| **14873572** | 43 | 20 | 5mL vial, 50µL dropper | 18 | 245 |
| **14883572** | 58 | 20 | 10mL vial, 50µL dropper | 18 | 40 |
| **14893572** | 58 | 20 | 10mL vial, 50µL ndropper | 18 | 245 |

## Vials, neutral glass, clear and amber, Type 1, diagnostic, screwthread





- Clear vials manufactured using Type I neutral glass
- Amber vials manufactured using Type I neutral glass that conforms to USP Type 1 requirements for light transmission to protect light sensitive products
- Tubular design provides excellent clarity and dimensional consistency from vial to vial
- Specially designed bottom radius adds strength for freeze drying applications
- Freeze dry stoppers demonstrate very low moisture absorption
- Two cap configurations available, PP cap and freeze dry stopper or urea EPE lined cap

| Cat. No | Height, mm | Diameter, mm | Capacity, mL | Neck diameter, mm | Pack qty |
|---|---|---|---|---|---|
| **Type I neutral glass vials, clear (caps sold separately)** | | | | | |
| **14803582** | 36 | 18 | 3 | 15.5 | 320 |
| **14813582** | 41 | 18 | 5 | 15.5 | 320 |
| **14823582** | 50 | 25 | 10 | 22 | 154 |
| **14833582** | 63 | 28 | 20 | 22 | 130 |
| **14843582** | 63 | 32 | 25 | 22 | 99 |
| **Type I neutral glass vials, amber (caps sold separately)** | | | | | |
| **14853582** | 36 | 18 | 3 | 15.5 | 320 |
| **14863582** | 41 | 18 | 5 | 15.5 | 320 |
| **14873582** | 50 | 25 | 10 | 22 | 154 |
| **14883582** | 63 | 28 | 20 | 22 | 130 |
| **14893582** | 63 | 32 | 25 | 22 | 99 |

## Caps and closures for screwthread diagnostic vials




- Freeze dry stoppers are push in (not screw thread)
- Urea EPE lined caps are suitable for most applications

| | Cat. No | Size, mm | Material | Pack qty |
|---|---|---|---|---|
| 1 | **14803592** | 15.5 | Polypropylene | 1,000 |
| 2 | **13550970** | 14 | Freeze dry stopper | 1,000 |
| | **14813592** | 15.5 | Urea EPE lined | 1,000 |
| | **14833592** | 20 | Freeze dry stopper | 1,000 |
| | **14843592** | 22 | Urea EPE lined | 1,000 |
| | **14823592** | 22 | Polypropylene | 1,000 |

## Vials, borosilicate glass, liquid scintillation, with caps, 7mL



- Smaller 7mL capacity vial saves in solvent use and disposal
- Potassium-free 33 borosilicate glass provides consistently low activity counts and excellent light transmission
- White caps fit GPI 22-400 thread finish and are suitable for marking
- Packed in five shrink wrapped trays of 200 vials, with five separately packed polybags each containing 200 caps

| Cat. No | Cap material | Neck O.D., mm | Height, mm | Pack qty |
|---|---|---|---|---|
| **10523904** | Urea | 17 | 54 | 1,000 |

## Vials, borosilicate glass, liquid scintillation, with caps, 20mL



- Potassium-free 33 borosilicate glass provides consistently low activity counts and excellent light transmission
- Fit all common counters
- Caps fit GPI 22-400 thread finish, and are suitable for marking
- Vials with caps attached are shrink-wrapped in five trays of 100 per case
- When caps are separate, vials are shrink-wrapped in five trays of 100 per case, and caps are packed in five polybags of 100 caps each
- Vial dimensions, with cap (O.D. x h): 28mm x 61mm

| Cat. No | Cap material | Cap style | Packaging type | Pack qty |
|---|---|---|---|---|
| **12353317** | Urea | Cork-backed metal foil liner | Caps attached | 500 |
| **12363317** | Urea | Cork-backed metal foil liner | Caps separate | 500 |
| **12373317** | Urea | Cone-shaped plastic liner | Caps separate | 500 |
| **12383317** | Polypropylene | Pulp-backed metal foil liner | Caps attached | 500 |
| **12393317** | Polypropylene | Pulp-backed metal foil liner | Caps separate | 500 |
| **12303327** | Polypropylene | No liner | Caps separate | 500 |

## Vials, sample, clear and amber, Type 1 Class A borosilicate glass, with fitted caps

- Supplied in partitioned trays
- Standard vials have fitted black phenolic caps with either polycone liner or PTFE faced white rubber liner
- Also available: pre-cleaned EPA (Environmental Protection Agency) vials for VOA (volatile organic analysis), with or without certification, having fitted white polypropylene open top caps with PTFE faced silicone septa

| Cat. No | Capacity, mL | Capacity, drams | O.D., mm | Height, mm | GPI thread finish | Pack qty |
|---|---|---|---|---|---|---|
| **Clear sample vials with fitted black phenolic polycone lined caps** | | | | | | |
| **11660112** | 4 | 1 | 15 | 48 | 13-425 | 144 |
| **11537733** | 8 | 2 | 17 | 63 | 15-425 | 144 |
| **11547733** | 12 | 3 | 19 | 68 | 15-425 | 144 |
| **11553522** | 16 | 4 | 21 | 73 | 18-400 | 144 |
| **11583522** | 20 | 5 | 28 | 60 | 24-400 | 72 |
| **11563522** | 24 | 6 | 23 | 88 | 20-400 | 144 |
| **11593522** | 25 | 6.25 | 28 | 73 | 24-400 | 72 |
| **11573522** | 30 | 8 | 25 | 94 | 22-400 | 144 |
| **Clear sample vials with fitted black phenolic PTFE faced rubber lined caps** | | | | | | |
| **11503532** | 2 | 0.5 | 12 | 38 | 8-425 | 288 |
| **11523532** | 4 | 1 | 15 | 48 | 13-425 | 144 |
| **11543532** | 8 | 2 | 17 | 63 | 15-425 | 144 |
| **11563532** | 12 | 3 | 19 | 68 | 15-425 | 144 |
| **11573532** | 16 | 4 | 21 | 73 | 18-400 | 144 |
| **11513542** | 20 | 5 | 28 | 60 | 24-400 | 72 |
| **11583532** | 24 | 6 | 23 | 88 | 20-400 | 144 |
| **11533542** | 25 | 6.25 | 28 | 73 | 24-400 | 72 |
| **11593532** | 30 | 8 | 25 | 94 | 22-400 | 144 |
| **Clear short sample vials with fitted black phenolic PTFE faced rubber lined caps** | | | | | | |
| **11543542** | 2 | 0.5 | 15 | 31 | 13-425 | 200 |
| **11553542** | 4 | 1 | 17 | 41 | 15-425 | 200 |
| **11563542** | 6 | 1.5 | 19 | 43 | 15-425 | 200 |
| **Amber sample vials with fitted black phenolic PTFE faced rubber lined caps** | | | | | | |
| **11573542** | 2 | 0.5 | 12 | 38 | 8-425 | 288 |
| **11583542** | 4 | 1 | 15 | 48 | 13-425 | 144 |
| **11309493** | 8 | 2 | 17 | 63 | 15-425 | 144 |
| **11503552** | 20 | 5 | 28 | 60 | 24-400 | 72 |
| **11513552** | 40 | 10 | 28 | 98 | 24-400 | 72 |
| **Cat. No** | **Capacity, mL** | **Capacity, drams** | **Colour** | **Height, mm** | | **Pack qty** |
| **Pre-cleaned EPA (Environmental Protection Agency) vials for VOA in both clear and amber, with fitted white polypropylene open top cap and fitted PTFE faced silicone septa. All EPA vials have an outside diameter of 28mm, 24-400 GPI thread finish.** | | | | | | |
| **Without certification** | | | | | | |
| **11553552** | 40 | 10 | Clear | 98 | | 144 |
| **11563552** | 40 | 10 | Amber | 98 | | 144 |
| **With certification** | | | | | | |
| **11583552** | 40 | 10 | Clear | 98 | | 144 |
| **11593552** | 40 | 10 | Amber | 98 | | 144 |



## Vials, HDPE, liquid scintillation, with caps, 7mL

- 7mL smaller capacity vials require less solvent
- HDPE provides low background counts and excellent light transmission, resists swelling caused by solvent degradation
- White caps fit GPI 15-425 thread finish and are suitable for marking
- Packs of 1,000 vials are shrink-wrapped in four trays of 250, with caps separately packed in four polyethylene bags of 250
- Packs of 2,000 vials are bulk packed in one polyethylene bag, with caps packed in two polyethylene bags of 1,000

| Cat. No | Cap material | Cap style | Packaging type | Pack qty |
|---|---|---|---|---|
| **12371599** | Polyethylene | No liner | Cap separate | 1,000 |
| **12644347** | Polyethylene | No liner | Cap separate | 2,000 |



## Vials, HDPE, liquid scintillation, with caps, 20mL

- 20mL vials fit all common counters
- High density polyethylene (HDPE) provides low background counts, excellent light transmission and resists leaking and swelling
- White caps fit GPI 22-400 thread and are suitable for marking
- Vials are shrink-wrapped in five trays of 100 per case
- Separate caps are packed in five polybags of 100
- Vial dimensions, with cap, (O.D. x h), mm: 28 x 61



| Cat. No | Cap material | Cap style | Packaging type | Pack qty |
|---|---|---|---|---|
| **12321599** | Urea | Cork backed metal foil liner | Caps separate | 500 |
| **12365573** | Urea | Cone shaped plastic liner | Caps separate | 500 |
| **12341599** | Polypropylene | Pulp backed metal foil liner | Caps separate | 500 |
| **12351599** | Polypropylene | Pulp backed metal foil liner | Caps attached | 500 |
| **12361599** | Polypropylene | Pulp backed metal foil liner | Bulk | 1,000 |

## Vial caps, colour coders

- Cap inserts for colour coding cryogenic vials
- Five colours available
- Flat top allows for handwritten sample identification
- Inserts available for both internally and externally threaded vials

| Cat. No | Colour | For use with | Pack qty |
|---|---|---|---|
| **11927974** | White | Externally threaded vials | 500 |
| **11937974** | Yellow | Externally threaded vials | 500 |
| **11947974** | Green | Externally threaded vials | 500 |
| **11957974** | Blue | Externally threaded vials | 500 |
| **11967974** | Red | Externally threaded vials | 500 |
| **11977974** | White | Internally threaded vials | 500 |
| **11987974** | Yellow | Internally threaded vials | 500 |
| **11997974** | Green | Internally threaded vials | 500 |
| **11907984** | Blue | Internally threaded vials | 500 |
| **11917984** | Red | Internally threaded vials | 500 |



For cryogenic vials, please refer to page 58



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## Weighing funnels, borosilicate glass

- Ideal for weighing small quantites of powder.
- Powder can be introduced via the tubular stem.



| Cat. No | Capacity, mL | Length, mm |
|---|---|---|
| **11572902** | 3 | 70 |
| **11582902** | 6 | 85 |
| **11592902** | 10 | 100 |

## Weighing boats, polystyrene, disposable

- Available as standard or anti-static
- Diamond or square shaped
- In black or white
- 5mL to 280mL capacity

| Cat. No | Shape | Capacity, mL | Pack qty |
|---|---|---|---|
| **Standard black** | | | |
| **12952850** | Diamond | 5 | 500 |
| **12962850** | Diamond | 30 | 500 |
| **12972850** | Diamond | 100 | 500 |
| **12982850** | Square | 10 | 500 |
| **12992850** | Square | 85 | 500 |
| **12902860** | Square | 280 | 500 |
| **Anti-static black** | | | |
| **12912860** | Diamond | 5 | 500 |
| **12922860** | Diamond | 30 | 500 |
| **12932860** | Diamond | 100 | 500 |
| **12942860** | Square | 10 | 500 |
| **12952860** | Square | 85 | 500 |
| **12962860** | Square | 280 | 500 |
| **Standard white** | | | |
| **12932840** | Diamond | 5 | 500 |
| **11573422** | Diamond | 30 | 500 |
| **12387552** | Diamond | 100 | 500 |
| **11593422** | Square | 10 | 500 |
| **11503432** | Square | 85 | 500 |
| **11513432** | Square | 280 | 500 |
| **Anti-static white** | | | |
| **12992840** | Diamond | 5 | 500 |
| **11533432** | Diamond | 30 | 500 |
| **11543432** | Diamond | 100 | 500 |
| **12922850** | Square | 10 | 500 |
| **11680302** | Square | 85 | 500 |
| **12608513** | Square | 280 | 500 |





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