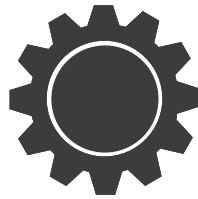


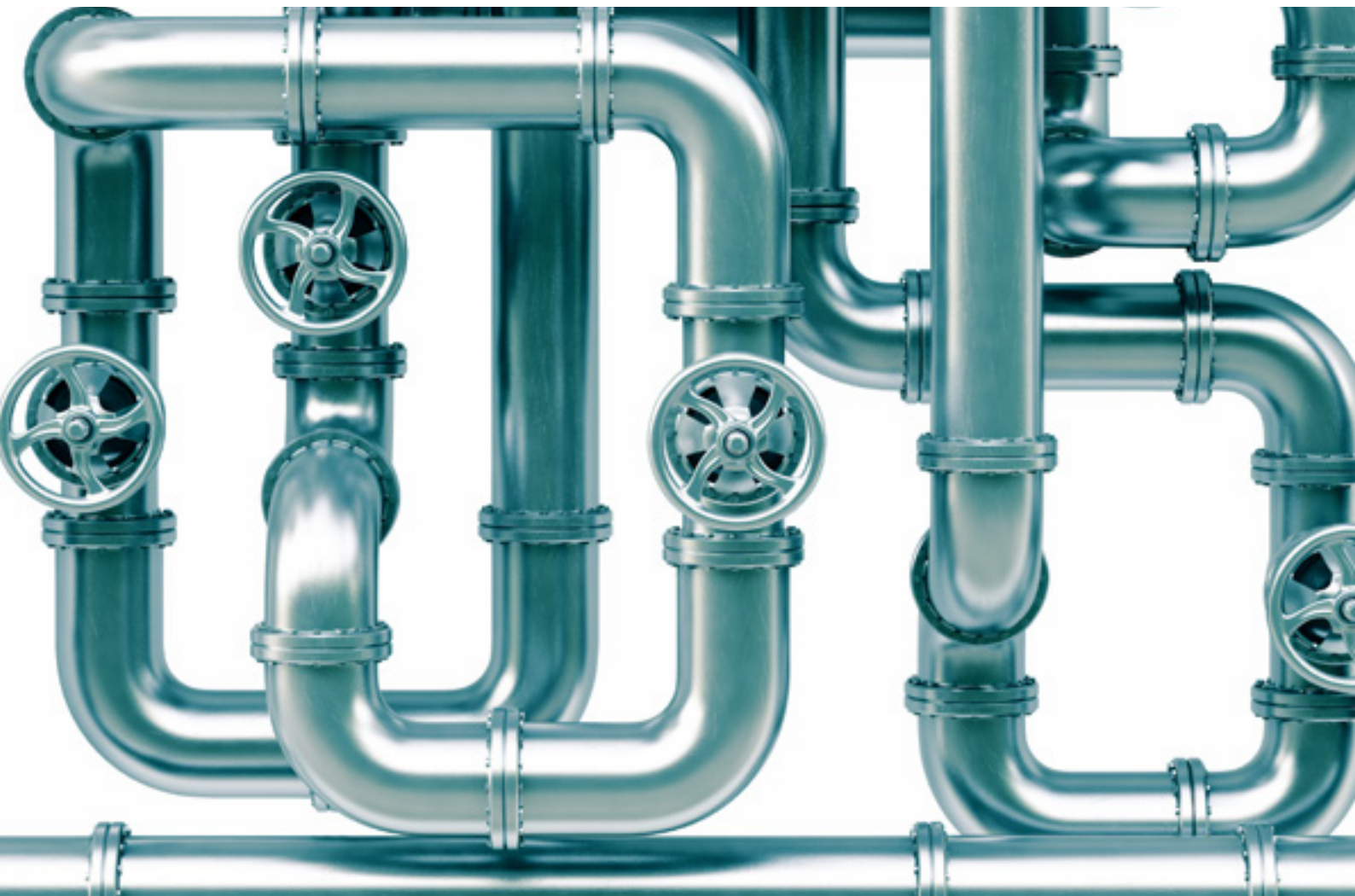


INDUSTRIES

**INDUSTRIAL**



**PROCESS**



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## BALANCE, PRECISION SERIES

Fisherbrand Precision Series balances are designed for basic routine weighing in a variety of laboratory or industrial environments. With the right combination of performance and features, these balances offer uncomplicated operation for all your basic weighing needs.

- Weighing modes include weighing, parts counting and percentage weighing
- Single line LCD
- Three button operation
- Solid diecast metal base, stainless steel pan
- Integral menu lock - a combination of software and a mechanical switch locks menus, including calibration
- Two year warranty

**Fisherbrand™**

Cat. No	Capacity	Readability	Linearity	Repeatability	Platform size	Calibration
15325113	210g	0.001g	0.002g	0.001g	120mm dia.	External
15335113	410g	0.001g	0.002g	0.001g	120mm dia.	External
15345113	410g	0.001g	0.002g	0.001g	120mm dia.	Internal
15355113	2100g	0.01g	0.02g	0.01g	180mm dia.	External
15385113	2100g	0.01g	0.02g	0.01g	180mm dia.	Internal
15365113	4100g	0.01g	0.03g	0.01g	180mm dia.	External
15395113	4100g	0.01g	0.03g	0.01g	180mm dia.	Internal
15375113	4100g	0.1g	0.1g	0.1g	180mm dia.	External



## BALANCE, RANGER™ 3000 COMPACT COUNTING

- Accurate weighing and counting performance is assured through Ranger Count 3000's high resolution, 30 item library function and auto-optimisation software that reduces errors.
- The three backlit LCD displays, including a centrally located count display, along with an easy-to-navigate menu, make Ranger Count 3000 easy to use in multi-step counting operations.
- Ranger Count 3000 produces accurate results within one second and virtually eliminates your wait time and allows you to move at a pace determined by you, not your weighing equipment.



Cat. No	Capacity, kg	Readability, g	Platform size, mm
13455119	1.5	0.05	300 x 225
13445119	3	0.1	300 x 225
13465119	6	0.2	300 x 225
13475119	15	0.5	300 x 225
13485119	30	1	300 x 225



## MOISTURE ANALYSER MBS65

With high value performance for all budgets, high quality durable construction plus easy one-button setup, the MBS65 is ideal for users at all skill levels and offers full operational flexibility for many applications in food or wastewater analysis, quality control protocols or agriculture.

- Large backlit LCD display
- RS232 bi-directional interface
- Easy to clean heating chambers ideal for frequent use
- Compact footprint designed to take up less space
- Heating technology: Halogen (50°C to 160°C in 5° increments)
- 200V a.c. to 240V a.c., 3A, 50/60Hz
- Two year warranty

**Fisherbrand™**

Cat. No	Capacity	Readability	Repeatability	Pan shape	Dimensions, mm (w x d x h)
15305123	60g	0.005g	0.05%	Round	170 x 280 x 130



## MOISTURE ANALYSER MA35

Ideal for daily routine use whether in production or in the laboratory, for quality control or for inspection of incoming raw materials. To ensure incredibly fast and effective sample heating the MA35 is equipped with two powerful metal rod dark infrared radiators. Easy to understand icons guide you in three steps from taring the sample pan to starting the measurement.

- 40°C to 160°C temperature range, adjustable in increments of 1°C
- Fully proven, reliable and effective dark infrared radiator for sample heating
- Easy to operate by clear, easy to follow symbol guidance
- Fully automatic end point detection or 0.1 to 99 minutes timer shut off mode

**sartorius**

Cat. No	Description
10601775	Moisture analyser 1mg - 35g



## BALANCE, RANGER™ 3000 COMPACT

- Multipurpose compact bench scales for basic industrial applications
- Large display
- User friendly scale with easy setup
- Rapid stabilisation provides unmatched throughput
- Equipped with a rechargeable battery



Cat. No	Capacity, kg	Readability, g	Platform size, mm
13485109	1.5	0.05	300 x 225
13425119	3	0.1	300 x 225
13405119	6	0.2	300 x 225
13415119	15	0.5	300 x 225
13495109	30	1	300 x 225



## WATER BATHS

- Temperature range from ambient to 99.9°C
- Temperature stability ±0.1°C and temperature uniformity ±0.05°C at 37°C
- Bright LCD controller with icon driven menu
- Stores three preset temperatures
- Automatic timer with option to set time to start procedure
- Global voltage - one part number works anywhere in the world
- Audible alarms help protect your work
- General purpose water baths include a polycarbonate gabled lid
- Shaking water baths with reciprocal oscillation from 30 to 200 oscillations per minute, include stainless steel gable cover, shaking tray

**Fisherbrand™**

Cat. No	Description
15385877	General purpose water bath 10L
15305887	General purpose water bath 28L
15325887	Shaking water bath, 15L
15335887	Shaking water bath, 27L



## BATHS, ULTRASONIC, ANALOGUE, HEATED

- State of the art microprocessor controlled ultrasonic cleaning and sweep technology
- Long lifespan from cavitation-resistant stainless steel tanks
- LED display showing set and remaining time and pre-set and actual temperature
- Ergonomically shaped plastic carrying handles
- Newly developed cover reduces noise and accelerates the heating up process
- Easy draining of cleaning liquid through the drain duct via a dial on the side
- Operating panel arranged so that liquid cannot enter the electronics
- Degas function key
- Lids and baskets also available separately (see below)

**Fisherbrand**

Cat. No	Model No	Volume, L	Dimensions, external [w x d x h], mm	Dimensions, internal [w x d x h], mm	Carrying handles	Power, W	Mass, kg
10591203	S10H	0.8	206 x 116 x 178	190 x 85 x 60	No	90	2
10551783	S15H	1.75	175 x 180 x 212	151 x 137 x 100	No	95	2.1
10162372	S30H	2.75	300 x 179 x 214	240 x 137 x 100	Yes	280	3.3
10215332	S40H	4.25	300 x 179 x 264	240 x 137 x 100	Yes	340	4
10345822	S60H	5.75	365 x 186 x 264	300 x 151 x 150	Yes	550	5.1
10395912	S70H	6.9	568 x 179 x 214	505 x 137 x 100	Yes	750	5.6
10663113	S80H	9.4	568 x 179 x 264	505 x 137 x 150	Yes	750	6.4
10239491	S100H	9.5	365 x 278 x 264	300 x 240 x 200	Yes	550	5.9
10204762	S120H	12.75	365 x 278 x 321	300 x 240 x 200	Yes	1000	7.5
10102762	S180H	18	390 x 340 x 321	327 x 300 x 200	Yes	1000	8.5
15280147	S300H	28	568 x 340 x 321	505 x 300 x 200	Yes	1500	11
10366012	S450H	45	615 x 370 x 467	500 x 300 x 200	Yes	2000	25
10427912	S900H	90	715 x 570 x 467	600 x 500 x 300	Yes	2800	42



## ULTRASONIC BATH LIDS, PLASTIC

**Fisherbrand**

Cat. No	For use with
10060892	0.8L baths
10235232	1.75L baths
10560243	2.75L and 4.25L baths
10798294	5.75L baths
11846244	6.9L and 9.4L baths
10487912	9.5L and 12.75L baths
10798484	18L baths
10345962	28L baths
11706208	45L baths
11716208	90L baths



## ULTRASONIC BATH BASKETS, STAINLESS STEEL

**Fisherbrand**

Cat. No	For use with
11726188	0.8L baths
11736188	1.75L baths
10241320	2.75L baths
11746188	4.25L baths
11756188	5.75L baths
11766188	6.9L baths
11776188	9.4L baths
11786188	9.5L baths
11796188	12.75L baths
11709118	14L baths
10614913	18L baths
11706198	28L baths
11786198	45L baths
11796198	90L baths





## HEATED IMMERSION CIRCULATORS

Isotemp heated immersion circulators offer a convenient, simple way to convert open baths into stable, constant temperature baths for a range of applications. High quality industrial motor for excellent pump performance and long life

- Two pump speeds 50% and 100%
- Adjustable PID control
- Five line LCD display
- Over temperature and low level cut-outs
- Includes external circulation plumbing with 8mm and 12mm fittings
- RoHS/WEEE compliant
- Safety class III FL-DIN 12876

**Fisherbrand**

Cat. No	Temperature range, °C	Stability, °C	Heater capacity, kW	Pump pressure, max., mbar	Pump flow, max., L/min	Dimensions [w x d x h], mm
<b>11336671</b>	Ambient +10 to +100	±0.05	1.2	310	17	111.8 x 320 x 205.7



## HEATED BATH CIRCULATORS

- Isotemp heated bath circulators feature reliable, high wattage heaters that deliver rapid fluid heat up for a variety of laboratory applications.
- A complete system made up of an immersion circulator and a bath, use as a temperature controlled bath or to circulate fluid externally to an application
- High temperature and low level cut-outs
- Inlet/outlet connections for external circulation included
- Stainless steel construction
- Compact footprint maximises bench space
- Work area cover included

**Fisherbrand**

Cat. No	Capacity, L	Temperature range, °C	Stability, °C	Heater, kW	Pump pressure, max., mbar
<b>11306681</b>	4 to 7	Ambient +10 to +200	±0.025	2.0	750



## ENVIRONMENTAL CHAMBERS

- Ideal for drug stability studies, shelf life testing of packaged products, controlled temperature storage, insect and large scale biological research
- 0° to 60°C (32° to 140°F) temperature range that can be set in 0.1°C increments
- Optimum uniformity and a wide temperature range allow for easy compliance with regulatory requirements
- Rugged construction and durable shelving provide for long life
- Customisable options are available for this series
- Full two year parts and labour warranty
- Complete with shelves

**thermo scientific**

Cat. No	Capacity, L	Dimensions interior, mm (W x H x D)	Dimensions exterior, mm (W x H x D)	Shelves, supplied/max
<b>15480430</b>	311	686 x 787 x 609	813 x 965 x 1308	6/19
<b>15470430</b>	821	686 x 787 x 1524	838 x 965 x 2032	5/26



## CLEAN BENCH HERAGUARD™ ECO

- Ideal for laboratory applications where sample protection is required
- Complies with EN 61010-1:2011, EN 61326:2006
- Low energy consumption
- Transparent side windows made of safety glass with access port for tubing or a media tap
- Standard melamine work top or optional stainless steel
- Intuitive control panel displays safety and performance data
- Easy maintenance: prefilter on the intake side can be changed without tools
- Optional UV disinfection light

**thermo scientific**

Cat. No	Description	Width, m
<b>15128902</b>	Clean Bench Heraguard Eco	0.9
<b>15158902</b>	Clean Bench Heraguard Eco	1.20
<b>15148902</b>	Clean Bench Heraguard Eco	1.50
<b>15138902</b>	Clean Bench Heraguard Eco	1.80
<b>15168902</b>	Clean Bench Heraguard Eco increased internal depth 78.5cm and height 95cm	1.80
Accessories		
<b>10603955</b>	Adjustable stand 750-950mm	0.9
<b>10171813</b>	Adjustable stand 750-950mm	1.20
<b>10294014</b>	Adjustable stand 750-950mm	1.50
<b>10690394</b>	Adjustable stand 750-950mm	1.80



## CAPTAIR SMART DUCTLESS FILTERING FUME HOODS

- Smart Technology™ uses light to show that the hood is operating safely so you can focus your attention on what is most important: your work. When the light is on, the hood is operating safely. To alert you, the light will pulse, together with an acoustic alarm, when the air flow is compromised, or when there is fan failure or filter breakthrough
- A simple light pattern associated to an acoustic alarm will indicate if: air flow is compromised, fan failure, filter breakthrough
- The new eGuard App gives you remote control
- Configurable filtering system above the enclosure can be adapted to filter gases, solvents, powders and particulates
- Meets AFNOR NFX 15 211/ANSI Z9.5-2012 filtration efficiency standard (classes 1 and 2)
- New sensors are added for detection of solvents or acids or formaldehyde
- New electronic anemometer monitors face velocity
- No ducting to the building ventilation system required
- No direct emission of pollutants into the atmosphere
- Very low energy consumption
- Ergonomic design
- Completely mobile and easy to relocate within your lab or to a new building

**Verlab**

Cat. No	Description
<b>15554520</b>	Captair Smart 321, 65W, 800 x 620 x 1110 (1285 max) mm, (without filter)
<b>15514550</b>	Captair Smart 391, 65W, 1005 x 620 x 1110 (1285 max) mm, (without filter)
<b>15544360</b>	Captair Smart 481, 65W, 1260 x 620 x 1110 (1285 max) mm, (without filter)
<b>15560721</b>	Captair Smart 392, 105W, 1005 x 749 x 1340 (1515 max) mm, (without filter)
<b>15570721</b>	Captair Smart 483, 160W, 1295 x 749 x 1340 (1515 max) mm, (without filter)
<b>15580721</b>	Captair Smart 633, 160W, 1620 x 749 x 1340 (1515 max) mm, (without filter)
<b>15590721</b>	Captair Smart 714, 220W, 1820 x 749 x 1340 (1515 max) mm, (without filter)



## MUFFLE FURNACES

Nabertherm furnaces are the perfect all-rounder for research and laboratory applications, offering ease of operation, advanced and attractive design, and high level of reliability.

- Heating from two sides by ceramic heating plates with integrated heating element which is safeguarded against fumes and splashing, and easy to replace
- Insulation made of non-classified fibre material
- Textured stainless steel sheet housing
- Dual shell housing for low external temperatures and high stability
- Adjustable air inlet integrated into the door, exhaust air outlet in the rear wall of furnace
- Supplied with B410 controller with four programs and five freely programmable ramps, or C450 with 10 freely adjustable programs and 20 segments
- Both controllers have integrated USB interface and offer plain text display in different languages



Cat. No	Description
15483392	Muffle furnace, L3/11/B410 with flap door, 1100°C, 3L
15493392	Muffle furnace, L9/11/B410 with flap door, 1100°C, 9L
15413402	Muffle furnace, L5/11/C450 with flap door, 1100°C, 5L
15433402	Muffle furnace, L5/11/C450 with flap door, 1100°C, 15L



## THERMOLYNE™ MUFFLE FURNACES

Thermo Scientific™ Thermolyne™ muffle furnaces offer heating and capacity options for a variety of application needs. From general laboratory to industrial use, Thermolyne furnaces are ideal for fast heat up and temperature control up to 1200°C.

- Ideal for ashing of organic or inorganic samples, heat treatment, determination of volatiles
- Other chemical analyses or material testing
- Waste water treatment
- Wide application in many sectors including pharmaceuticals, environment and agricultural research, paper and packaging manufacturing, cosmetics, general industry



Cat. No	Description	Max temp., °C	Capacity, L	Dimension, ext. (L x W x H), cm
10215522	Muffle furnace benchtop	1100	1.3	33 x 23 x 36
10453152	Muffle furnace benchtop	1100	2.1	40 x 25 x 37
10728344	Muffle furnace benchtop	1200	2	39 x 28.5 x 47
10509722	Muffle furnace benchtop	1200	5.8	50 x 34 x 19
12431892	Muffle furnace large premium	1200	14	51 x 48.5 x 53.3
11840730	Muffle furnace large tabletop	1100	45	64.7 x 54.6 x 74.9
10091692	Ashing furnace atmosphere controlled	975	15	51 x 49 x 53
11800750	Ashing furnace atmosphere controlled	975	46	65 x 55 x 75



## TUBE FURNACES

These compact tube furnaces with integrated control systems find multiple applications in many industrial or laboratory processes. Equipped with a standard working tube made of C530 ceramic and two fibre plugs, all these models offer an unbeatable price/performance ratio.

- Tmax 1200°C or 1300°C
- Single-zoned design as standard
- Dual shell housing of brushed stainless steel
- Heated length 250mm or 500mm
- Working tube of C530 ceramic
- Low noise operation
- USB-flash drive



Cat. No	Model	Tmax (°C)	Heated length, (mm)
15436582	R50/250/12	1200	250
15476592	R50/250/13	1300	250
15476582	R50/500/12	1200	500
15496592	R50/500/13	1300	500



## HIGH PERFORMANCE BLENDER

The Gosselin™ S-Blender-1 is a high performance unit suitable for the quick and accurate blending of many sample types including food, agriculturals, chemicals and cosmetics. Suitable for a range of sample dilutions between 50 to 400mL. Recommend use in conjunction with the Gosselin™ S-Diluter-1.

- Easy to clean with removable paddles and blending chamber
- Autoclavable paddles and door
- Programmable, adjustable speed, time, and blending level
- Low noise level (51 dbA)



Cat. No	Description
15589783	Gosselin™ S-Blender-1



## HOMOGENISERS, MICRO DISTEC™

For fast and economical dispersion of both small and large amounts of a wide range of products. Model 125 is a lightweight and low noise unit offering simple, easy operation with an on/off switch and fingertip speed control. It features intelligent drive control and regulation for long working life and is available with height adjustable stand. Models 500 and 1000 feature integrated electronic speed regulation and stabilisation with a potentiometer for easy setting of desired speed. Automatic soft start and an integrated thermal overload fuse protects the motor and again ensures longevity. Available with user-friendly coupling that allows easy exchange of generators.

- For the production of solids suspensions, dispersions and emulsions including oil/water
- Dispersion of plant, human or animal tissues, resins and pigments
- Dispersion of APIs in pharmaceutical preparations
- Formulation of lotions, creams and food products
- For extraction of active substances, QA and QC of selected products



Cat. No	Description
15524049	Micro DisTec Homogeniser 125 Package, 230V consisting of drive unit MDT 125, Stand, 5, 7 and 10mm generators and one box of disposable generators 7mm (25)
15534049	Micro DisTec Homogeniser 125, 230V UK
15564049	Micro DisTec Homogeniser 500 Package, 230V consisting of drive unit MDT 500 and stand
15574049	Micro DisTec Homogeniser 500, 230V UK
15584049	Micro DisTec Homogeniser 1000 Package, 230V consisting of drive unit MDT 1000 and stand
15594049	Micro DisTec Homogeniser 1000, 230V UK



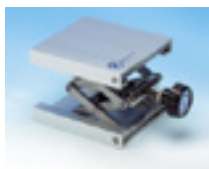
## KNIFE MILL GRINDOMIX GM300

The Grindomix GM300 is designed for the grinding and homogenisation of foodstuffs and other biological, agricultural or pharmaceutical samples, processing sample volumes up to 4.5L quickly and reproducibly.

- Four sharp, robust blades and powerful 1.1kW motor
- Efficient processing of up to 4,500mL feed quantity
- Grinds dry, soft and medium-hard products
- Also homogenises substances with high water, oil or fat content
- Meets and exceeds all special laboratory and analytical requirements
- Superior to any commercial household mixer
- Multi-modal: pre-grinding, fine-grinding, cutting, reverse impact grinding
- All parts which come into contact with the sample material are autoclavable



Cat. No	Description
10574755	Knife Mill Grindomix GM300



## JACKS, LABORATORY

- Aluminium alloy with lifting screw in stainless steel
- A plastic knob operates the scissor action lifting mechanism
- Either plate can be used as the base and on the two larger sizes both plates are drilled to accept a 12mm diameter support rod

Fisherbrand™

Cat. No	Plate dimensions, mm	Height, mm	Load capacity, kg
<b>11597013</b>	110 x 140	40 to 145 (top plate)	15
<b>11507023</b>	170 x 160	50 to 720 (top plate)	25
<b>11517023</b>	280 x 260	60 to 450 (top plate)	35



## LABEL PRINTER, PORTABLE, BMP™ 21-LAB

The BMP™21-LAB Portable Label Printer is an all-in-one hand-held labeller. Used with label materials designed specifically for harsh environments, the BMP21-LAB printer can quickly and easily create legible, durable and professional-looking labels for a wide range of flat, curved or highly textured surfaces that stay stuck for years even when exposed to extreme temperatures and chemicals.

- Smart Cell Technology for automatic label set up
- ABC keypad, graphics library, hot keys and intuitive menu functions
- Drop-lock-and-go label cartridges
- Automated serialisation, time and date stamp
- Durable 6mm to 19mm print size maximises data identification
- Two line LCD display
- Lanyard and magnet for more convenient use and storage, long life rechargeable battery

BRADY

Cat. No	Description
<b>15313192</b>	Label printer BMP21-LAB



## LABEL PRINTER, BBP12

The Brady BBP™12 label printer is a compact, reliable, affordable entry level thermal transfer benchtop printer. Ideal for customers requiring low volume printing on lots of different materials within the electrical, voice and datacom, laboratory and specialised electronics markets. It allows you to print labels, tapes, cable markers, sleeves and much more. The BBP12 offers a high print speed of 100mm/second and can accommodate a wide range of Brady identification labels.

- Prints a wide range of labels from 10mm up to 112mm wide
- Accurate image and barcode positioning in small labels
- Standard 300 dpi print quality
- Full colour LCD display
- Comes with an external unwinder to print larger label rolls
- Stand-alone as any universal key board can be connected
- Size (w x d x h) 202mm x 258mm x 173mm

BRADY

Cat. No	Description
<b>15430705</b>	BBP12 Label printer with unwinder
<b>15512000</b>	BBP12 Label printer with unwinder and LabelMark6 Pro software
<b>15532000</b>	BBP12 Label printer application kit, includes assorted labels THT-131-461-3, THT-156-492-3, THT-163-499-3, R7950, R6400 and R4900



## LABELS, GHS SYMBOLS

- Self-adhesive
- High quality labels that can withstand the toughest environments
- Ultra-durable materials mean you only need to label products once in their lifetime
- Extremely weather, abrasion and chemical resistant
- Labels can withstand temperatures of -40°C to +120°C
- 100mm x 100mm labels are individual labels on a roll

BRADY

Cat. No	Description	Dimensions, mm	Pack qty
<b>11598864</b>	Explosive	100 x 100	Roll of 250
<b>11548874</b>	Flammable	100 x 100	Roll of 250
<b>11598874</b>	Oxidising	100 x 100	Roll of 250
<b>11548884</b>	Compressed Gas	100 x 100	Roll of 250
<b>11598884</b>	Irritant	100 x 100	Roll of 250
<b>11548894</b>	Hazardous to Aquatic Environment	100 x 100	Roll of 250
<b>11598894</b>	Respiratory Hazard	100 x 100	Roll of 250
<b>11548904</b>	Corrosive	100 x 100	Roll of 250
<b>11598904</b>	Acute Toxicity	100 x 100	Roll of 250



## Is food analysis important to your process?

Our Food Analysis brochure features a comprehensive range of high quality and reliable products to collect, store and prepare your sample.

Discover how you can validate a large range of parameters during all steps of your processes.

Available on [eu.fishersci.com](http://eu.fishersci.com)



## STEREO MICROSCOPE

The Classmag 30 Stereo microscope is specially designed for routine, quick, quality control applications. It features a turret magnification changer with 2X and 4X magnification objectives, a heavy-duty rack and pinion focusing block with slip clutch, and a pole-stand with incident and transmitted 12V/10W tungsten illumination.

Model	Classmag 30
Optical system	Greenough
Observation tube	Binocular head
Interpupillary distance, mm	51 to 79
Dioptr adjustment	On the left eyepiece, +/- 5 diopter
Inclination	45° inclined
Eyepieces	WF10X/20mm
Objectives system	Turret changer
Objectives magnification	2X to 4X
Working distance, mm	47
Stand	Pole type stand with transmitted illumination
Base, mm	190 x 115
Column/arm	130mm high
Head holder	For Ø13mm column with incident illumination
Focus mechanism	Coarse focusing system with tension adjustment
Focusing stroke, mm	42
Incident illumination	Tungsten 12V/10W
Transmitted illumination	Tungsten 12V/10W
Transformer	Internal
Power supply	220V
Accessories included	Black, white and frosted stage plates, dust cover
Dimensions (l x w x h), mm	190 x 115 x 285
Weight, kg	2.7

Fisherbrand

Cat. No	Description
11702656	Classmag 30 Stereo Microscope



## OVENS, UNIVERSAL

- Precise and homogenous temperature control independent of chamber volume and load
- Temperature range up to +300°C
- Forced air circulation
- Augmented functionality with convenient, approved and tested accessories
- Working chamber and housing constructed almost exclusively from high quality, corrosion resistant and easily cleanable stainless steel
- A wide range of options for programming and documentation using interfaces, integrated data logger and Software AtmoCONTROL
- Three year guarantee for appliances except wear and tear parts
- The temperature values of all universal ovens are measured according to DIN 12880: 2007-05
- Each universal oven is safety tested and CE marked

memmert  
Expert in the world

Cat. No	Description
12646987	Universal oven UF55, SingleDISPLAY with touchscreen, 1 grid, 230V 50/60Hz, 400mm x 400mm x 330mm (w x h x d), 53L volume
12626987	Universal oven UF55plus, TwinDISPLAY with touchscreen, 1 grid, 230V 50/60Hz, 400mm x 400mm x 330mm (w x h x d) 53L volume
12616997	Universal oven UF110, SingleDISPLAY with touchscreen, 2 grids, 230V 50/60Hz, 560mm x 480mm x 400mm (w x h x d) 108L volume
12626997	Universal oven UF110plus, TwinDISPLAY with touchscreen, 2 grids, 230V 50/60Hz 560mm x 480mm x 400mm (w x h x d) 108L volume



## OVENS, HEATING AND DRYING

For simple drying of glassware to the most complex and carefully controlled heating applications. The Thermo Scientific™ Heratherm™ oven range includes an array of products to match your needs.

### Efficient

- Surpassing energy efficiency, increasing cost effectiveness, reducing environmental impact
- Unique door design reduces heat emission significantly
- Timer for effective usage and additional energy savings
- Space saving footprint without compromising volume
- Flexible shelving system allows for optimal space utilisation

### Safe

- Routine check upon startup for optimum performance levels
- Temperature uniformity as good as ±2°C at 150°C
- Automatic audible and visual over temperature alarm
- Access port for data logging with independent sensors

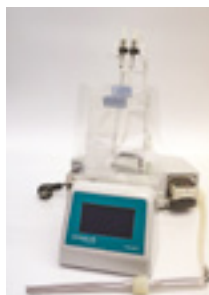
### Easy

- Intuitive easy settings, with easy-to-read, large display
- Easy cleaning with rounded corners

thermo scientific

Cat. No	Model No	Type	Volume, L	Temp range, °C	Dimensions, ext. [w x d x h], mm	Dimensions, int. [w x d x h], mm	Mass, kg	No. of shelves [max/standard]
<b>General protocol</b>								
10659650	OGS60	Gravity convection	65	50°C to 250°C	530 x 565 x 720	328 x 415 x 480	42	13/2
10669650	OGS100		105	50°C to 250°C	640 x 565 x 820	438 x 414 x 580	53	16/2
10304150	OGS180		176	50°C to 250°C	640 x 738 x 920	464 x 589 x 580	66	19/2
10661751	OMS60	Mechanical convection	66	50°C to 250°C	530 x 565 x 720	354 x 368 x 508	42	13/2
10794982	OMS100		104	50°C to 250°C	640 x 565 x 820	464 x 368 x 608	53	16/2
10291870	OMS180		179	50°C to 250°C	640 x 738 x 920	464 x 543 x 708	66	19/2
<b>Advanced protocol</b>								
10291830	OGH60	Gravity convection, coated exterior	61	50°C to 330°C	530 x 565 x 720	328 x 389 x 480	44	13/2
10140400	OGH100		99	50°C to 330°C	640 x 565 x 820	438 x 389 x 580	55	16/2
10793092	OGH180		168	50°C to 330°C	640 x 738 x 920	438 x 564 x 680	69	19/2
10774042	OMH60	Mechanical, convection, coated exterior	62	50°C to 330°C	530 x 565 x 720	345 x 343 x 508	44	13/2
10349839	OMH100		97	50°C to 330°C	640 x 565 x 820	464 x 343 x 608	55	16/2
10590021	OMH180		170	50°C to 330°C	640 x 738 x 920	464 x 518 x 708	69	19/2





## SAMPLE DILUTER

The Gosselin™ S-DILUTER-1 is an automated diluter suitable for the dilution of a range of sample sizes from 50mL to 400mL. The diluter's design helps to provide quick and accurate dilution of many sample types including foods, agriculturals, chemicals and cosmetics. The S-Diluter-1 increases your laboratory's productivity, helps to secure dilution operations, and reduces the risk of contamination.

- Easy to use, with simple LCD touch-screen two-key operation
- Compatible with all sample containers and includes a removable bag holder
- Easy tubing change system
- Dual pump mode to reduce dilution time
- Distribution speed 910mL/min
- Connectable to printer, bar code reader or computer
- High accuracy



Cat. No	Description
<b>15599783</b>	Gosselin™ S-Diluter -1



thermo scientific

## 'STEPPER' DISPENSING PIPETTORS

- Makes up to 45 deliveries before refilling is necessary
- Positive displacement design ensures accurate results, even for viscous, volatile or other problematic liquids
- Lightweight, ergonomic handle and wide finger rest minimise operator hand strain
- Operation is simple, just attach the appropriate size tip, fill and prime the tip and dial the selected volume
- Volume is easy to set, with the aid of the convenient volume setting chart located on the handle

Cat. No	Description	Volume range, µL
<b>11863011</b>	Finnpipette™ Stepper, single channel, handle	10 to 5000



## DISPENSER, BOTTLE TOP

- Excellent chemical compatibility
- Fully autoclavable
- Easy to calibrate
- Removable piston
- Springless precision valve mechanism
- Anti-drip cap
- Fits on most common sizes of bottle
- Traceability to an NABL accredited laboratory

Fisherbrand™

Cat. No	Capacity, mL
<b>12867913</b>	0.25 to 2.5
<b>12877913</b>	0.5 to 5
<b>12887913</b>	1 to 10
<b>12897913</b>	2.5 to 30
<b>12807923</b>	5 to 60
<b>12817923</b>	10 to 100



## LABORATORY VACUUM PUMP

- Laboratory vacuum pump, standard, membrane, aluminium/PTFE
- 15L/min, down to 100mbar
- Filtration of aqueous or non-aggressive solvent solutions
- For vacuum ovens, degassing, gas transfer

Fisherbrand™

Cat. No	Description
<b>12695326</b>	Laboratory vacuum pump



## LABORATORY VACUUM PUMP SYSTEM

Specifically designed to maintain pump efficiency in rotary evaporator applications, iQ pumps from Welch IImvac™ employ a unique heated head design. Keeping the pump heads at an elevated temperature ensures that condensation cannot occur and the pump is always capable of achieving the final vacuum of 2mbar, even during prolonged use.

- Heated pump heads eliminate condensation for consistent, clean vacuum
- No need for gas ballasting
- No loss of ultimate vacuum due to process media contamination
- Ideal for rotary evaporators

WELCH  
A Fisher Scientific Product

Cat. No	Vacuum, mbar	Flow rate, L/min	Dimensions, [w x d x h], mm
<b>10200790</b>	<2	20	250 x 260 x 435
<b>11877343</b>	<2	36	360 x 310 x 445
<b>11872263</b>	<2	81	360 x 310 x 445
<b>11882263</b>	<2	138	540 x 310 x 445

### Accessories

**13514920** Connection set RO Kit 1 - Kit includes: vacuum hose 18/8x5 mm, cooling water, chiller connection hose, clamps

#### Fitting Kit 5 :

- Adapter flange KF DN16 -DN8, stainless steel
- Adapter flange KF DN25 -DN8, stainless steel
- KF external centering Al, with FKM-O-Ring DN16
- KF normal clamping ring DN16, Al,
- KF external centering Al, with FKM-O-Ring DN25
- KF normal clamping ring DN25, Al
- Vacuum hose rubber red, 18 / 8 x 5 mm (2,5 m)

**13554920**

#### Fitting Kit 6

- Cartridge with 2x hose nozzle 8
- Cartridge for oil mist filter
- Adapter flange KF DN16 - shaft DN8, stainless steel
- Adapter flange KF DN25 - shaft DN8, stainless steel
- KF external centering Al, with FKM-O-Ring DN16
- KF normal clamping ring DN16, Al,
- KF external centering Al, with FKM-O-Ring DN25
- KF normal clamping ring DN25, Al
- Vacuum hose rubber red, 18 / 8 x 5 mm (2,5 m)

**13564920**

#### Inline filter kit DN6 + DN8

- Inline filter
- Silicone hose DN 6
- Silicone hose DN 8

**13504920**



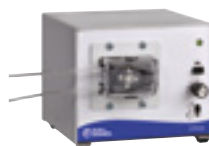
## DIAPHRAGM PUMP

Chemically resistant, these pumps are ideal for applications involving aggressive solvents and acidic vapours. The diaphragms and all gas contaminated parts are made from PTFE and PTFE compound. The pumps and connection heads are carbon fibre reinforced to provide electrical conductivity and prevent electrostatic charging.

- Handles corrosive and aggressive vapour without damage
- Clean, reliable vacuum pumps to suit your needs
- Compact and easy to use
- Hose nozzles for 8mm I.D. tubing
- Vibration damping feet

**Fisherbrand™**

Cat. No	Vacuum, mbar	Flow rate, L/min	Dimensions, external (w x d x h), mm	Power, W
10287097	<8	16.7/18	195 x 235 x 416	60
12981131	<8	38/41	230 x 265 x 169	180
12991131	<2	33/36	200 x 260 x 150	90



## PERISTALTIC PUMP, CTP100

### Easy to maintain

- Simple, fast tubing changes
- Fixed occlusion eliminates adjustment after tubing changes and assures operation against pressure up to 30PSIG

### Easy to use

- Contamination free pumping - fluid contacts only the tubing material
- Controls are mounted on front panel with a separate single-turn speed control
- Flow direction switch with centre 'OFF' position
- Prime button runs pump at maximum speed to rapidly prime or flush tubing
- Reversible pump direction permits purging of tubing prior to use

### Diverse performance range

- Flow rates less than 2µL/min to 105mL/min
- Pressure up to 2.5bar (30PSIG)
- Accurate and repeatable flow delivery
- Address a wide range of critical applications with tubing materials that comply to USP Class VI, FDA and NSF standards

### Ergonomic design

- Space efficient - low profile, stackable design
- Remote capability - actuate unit with a foot switch or contact closure

**Fisherbrand™**

Cat. No	Number of Channels	Flow Capacity (mL/min)	RPM	Dimensions, mm	Operating temperature
15337527	1	0.017 to 11	13 to 80	178 x 134 x 114	0 to 40°C



## ASPIRATION ADVANTAGE SYSTEM

A compact and portable system for safe and precise aspiration of non-flammable chemical, biological and medical liquids. The fluids can be removed easily from slides, petri dishes, microplates, cell culture containers or similar vessels.

- Integrated chemically-resistant diaphragm pump
- Pumping speed 15L/min
- Ultimate pressure mbar 100
- Automatic flow-stop when the 4L container is full
- System includes vacuum pump, HandVac pipettor, eight channel adapter for disposable tips, single channel adapter for disposable tips, rubber adapter for Pasteur pipettes and operation manual

**Fisherbrand™**

Cat. No	Description
15348191	Aspiration Advantage System with 4L polypropylene bottle, with vacuum regulator on front panel and vacuum gauge
10700854	HandVac basic pipettor kit, comprising a single channel plastic adapter for pipettor tip with ejector, silicone hose (inside diameter 6mm, wall thickness 3mm, length 2m) and rapid action coupling hose connector
15572620	HandVac duo kit, comprising a single channel plastic adapter for pipettor tip with ejector, silicone hose (inside diameter 6mm, wall thickness 3mm, length 2m), rapid action coupling hose connector and Y-connector
10412163	Eight-channel stainless steel adapter
13594340	Eight-channel plastic adapter with ejector
15441934	Single channel plastic adapter for disposal tips with ejector
15432055	Silicone hose, 2m length, inside diameter 6mm x wall thickness 3mm
15451934	Table top stand for HandVac and accessories
12967914	In-line filter
15461934	4L polypropylene receiving bottle includes lid, in-line filter, tubing and rapid action coupling hose connectors
15309804	Footswitch for Aspiration Advantage System, with on-off function
10591443	Footswitch for Aspiration Advantage System, momentary stop action



## DISPENSING PUMP SYSTEM, DP2000

Peristaltic pumps for critical metering and dispensing applications - pump, dispense and fill all with one unit. The innovative DP2000 peristaltic pump systems provide a number of important advantages for users, including single-channel variable flow from 0.5mL/min to 3000mL/min at a variable speed range of 4 to 400rpm. The unit's powerful motor provides better than 0.25% percent speed control accuracy and repeatability as well as remote control operation.

- Simple to set up and easy to use
- Contamination-free design ideal for cell culture, cross-flow filtration, dispensing harvesting, sample preparation, spectroscopy, stem cell research, pH control and more
- Loaded with broad range of remote control options - ideal for automated process applications
- Space efficient - low profile, stackable design
- Accurate, reliable control of flow and dosing
- Reversible pump direction

**Fisherbrand™**

Cat. No	Description
15397547	Dispensing Pump System, DP2000



## PERISTALTIC PUMP, GP1000

Use this tubing pump for consistent fluid delivery and contamination free pumping in peristaltic pumping applications. Fisherbrand™ GP1000 Peristaltic General Purpose Pump System features accurate, reliable control of flow and dosing.

- General purpose pumping system
- Easy to use and maintain
- Stackable, ergonomic design
- Flow capacity 0.5 to 3L/min
- 4 to 400rpm
- Reversible

**Fisherbrand™**

Cat. No	Description
15377547	GP1000 peristaltic pump, 0.5 to 3L/min



## PLATINUM-CURED SILICONE EXTENSION TUBING

- Extension tubing for stopped autoanalysis links/assemblies
- Wide range of general applications
- Platinum-cured silicone with excellent heat resistance, low compression set
- Odourless, nontoxic, translucent
- Temperature range -50°C to 230°C
- Sterilisable by autoclave or gamma irradiation

**Fisherbrand™**

Cat. No	Length, m	Tubing ID (mm)
<b>15571375</b>	15	0.89
<b>15581375</b>	15	1.42
<b>15591375</b>	15	2.06
<b>15501385</b>	15	2.79



## PLATINUM-CURED SILICONE STOPPED TUBING

- Start pumping with little effort - preconfigured links for quick and easy setup saves you time
- Use with extension coils/tubing to complete your system

**Fisherbrand™**

Cat. No	Tubing ID (mm)	Pack qty
<b>15531375</b>	0.89	6
<b>15541375</b>	1.42	6
<b>15551375</b>	2.06	6
<b>15561375</b>	2.79	6
<b>15501365</b>	1.6	6
<b>15511365</b>	3.2	6
<b>15521365</b>	4.8	6
<b>15531365</b>	6.4	6



## PHARMED BPT EXTENSION TUBING

- Use as extension tubing for stopped autoanalysis links or assemblies

**Fisherbrand™**

Cat. No	Length, m	Tubing ID, mm
<b>15561385</b>	30	0.25
<b>15571385</b>	30	0.89
<b>15581385</b>	30	1.42
<b>15591385</b>	30	2.06
<b>15501395</b>	30	2.79

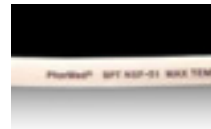


## BIOPHARM PLATINUM-CURED SILICONE GP EXTENSION TUBING

- Ultra smooth inner surface minimises particle entrapment
- Standard 15 metre lengths
- Available in both thin and thick wall configurations

**Fisherbrand™**

Cat. No	Length, m	Tubing ID, mm	Wall thickness, mm
<b>15561315</b>	15	4.8	1.6
<b>15571315</b>	15	6.4	1.6
<b>15581315</b>	15	8.0	1.6
<b>15591315</b>	15	4.8	2.4
<b>15501325</b>	15	6.4	2.4
<b>15511325</b>	15	8.0	2.4
<b>15521325</b>	15	9.5	2.4



## PHARMED BPT STOPPED TUBING

- Start pumping with little effort - preconfigured links for quick and easy setup saves you time
- Save time with already assembled links
- Use with extension coils/tubing to complete your system

**Fisherbrand™**

Cat. No	Tubing ID, mm	Pack qty
<b>15511385</b>	0.25	12
<b>15521385</b>	0.89	12
<b>15531385</b>	1.42	12
<b>15541385</b>	2.06	12
<b>15551385</b>	2.79	12

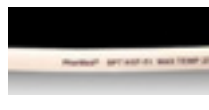


## PHARMED BPT EXTENSION TUBING

**Fisherbrand™**

- General purpose pump tubing
- Standard 15m lengths
- 1.6mm wall configuration

Cat. No	Length, m	Tubing ID, mm	Wall thickness, mm
15581295	15	0.8	1.6
15591295	15	1.6	1.6
15501305	15	3.2	1.6
15511305	15	4.8	1.6
15521305	15	6.4	1.6
15531305	15	8.0	1.6

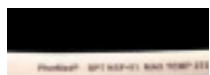


## PHARMED BPT STOPPED TUBING ASSEMBLY

**Fisherbrand™**

- Start pumping with little effort - preconfigured links for quick and easy setup saves you time
- Use with extension coils/tubing to complete your system

Cat. No	Tubing ID, mm	Pack qty
15541365	0.8	12
15551365	1.6	12
15561365	3.2	12
15571365	4.8	12



## PHARMED BPT PRECISION STOPPED TUBING ASSEMBLY

**Fisherbrand™**

- Start pumping with little effort - preconfigured links for quick and easy setup saves you time

Cat. No	Tubing ID, mm	Wall thickness, mm	Pack qty
15531325	0.8	1.6	12
15425623	1.6	1.6	12
15495623	3.2	1.6	12
15541325	4.8	1.6	12
15551325	6.4	1.6	12
15561325	8.0	1.6	12
15571325	4.8	2.4	12
15581325	6.4	2.4	12
15591325	8.0	2.4	12
15501335	9.5	2.4	12



## NORPRENE FOOD STOPPED ASSEMBLY TUBING

**Fisherbrand™**

- Ready-to-use stopped assembly saves you time
- Ideal for the food, dairy, and beverage industries
- Heat, ozone, and UV light resistant
- None-ageing and non-oxidising with superior acid and alkali resistance
- Opaque beige coloration
- FDA-compliant and NSF listed. Manufactured according to GPM
- Temperature range : -51 to 135°C
- Sterilisable by autoclave

Cat. No	Tubing ID, mm	Wall thickness, mm	Pack qty
15511335	0.8	1.6	12
15521335	1.6	1.6	12
15531335	3.2	1.6	12
15541335	4.8	1.6	12
15551335	6.4	1.6	12
15561335	8.0	1.6	12
15571335	4.8	2.4	12
15581335	6.4	2.4	12
15591335	8.0	2.4	12
15501345	9.5	2.4	12





## TYGON E-FOOD B-44-4X TUBING

**Fisherbrand™**

- Standard 15m lengths
- Food and beverage usage

Cat. No	Length, m	Tubing ID, mm	Wall thickness, mm
15591305	15	3.2	1.6
15501315	15	4.8	1.6



## TYGON E-FOOD B-44-4X EXTENSION TUBING

**Fisherbrand™**

- Use as extension tubing for stopped autoanalysis links/assemblies
- Standard 30m lengths
- Food and beverage usage

Cat. No	Length, m	Tubing ID, mm
15561395	30	0.19
15571395	30	0.25
15581395	30	0.89
15591395	30	1.42
15501405	30	2.06
15511405	30	2.79



## TYGON E-FOOD (B-44-4X) E-LFL TUBING STOPPED TUBING ASSEMBLY

**Fisherbrand™**

- Start pumping with little effort - preconfigured links for quick and easy setup saves you time
- Use with extension coils/tubing to complete your system

Cat. No	Tubing ID, mm	Pack qty
15581365	0.8	12
15591365	1.6	12
15501375	3.2	12
15511375	4.8	12
15521375	6.4	12



## TYGON E-FOOD B-44-4X STOPPED TUBING ASSEMBLY

**Fisherbrand™**

- Stopped assembly with preconfigured links for quick and easy setup saves you time
- Designed especially for handling food products, with extremely smooth bore
- Nontoxic, will not affect taste or odour, and clear for flow verification
- Temperature range -51°C to 135°C
- Sterilisable by autoclave

Cat. No	Tubing ID, mm	Wall thickness, mm	Pack qty
15511345	0.8	1.6	12
15521345	1.6	1.6	12
15531345	3.2	1.6	12
15541345	4.8	1.6	12
15551345	6.4	1.6	12
15561345	8.0	1.6	12
15571345	4.8	2.4	12
15581345	6.4	2.4	12
15591345	8.0	2.4	12



## TYGON E-FOOD B-44-4X PVC STOPPED TUBING

**Fisherbrand™**

- Start pumping with little effort - preconfigured links for quick and easy setup
- Use with extension coils/tubing to complete your system

Cat. No	Tubing ID, mm	Pack qty
15511395	0.19	12
15521395	0.25	12
15531395	0.89	12
15541395	1.42	12
15551395	2.79	12



## TUBING, PERISTALTIC PUMP

### Silicone

Fisherbrand™ peristaltic pump grade silicone tubing is FDA, NWC and BGA approved and is certified to USP XXII class 6. Autoclavable at 130°C in steam and sterilisable by gamma radiation without impairing quality. This translucent pump grade silicone tubing is branded along the tube's length for ease of identification. It may be opaque or translucent in appearance.

### Santoprene

Fisherbrand™ Santoprene peristaltic pump tubing has been tested so that it can withstand over one hundred cycles of steam autoclaving at 134°C or five standard sterilisation cycles using ethylene oxide, with no significant physical or chemical effects. It can also be sterilised using high energy ionising radiation and at normal irradiation levels, 2Mrad to 3Mrad should be sufficient for most laboratory and research applications.

Complies with the rigid requirements for USP Class VI status.

**Fisherbrand™**

Cat. No	Bore size, mm	Wall thickness, mm	Length, m
<b>Silicone</b>			
10141841	0.5	1.6	15
10213321	0.8	1.6	15
10631692	1.6	1.6	15
10283361	3.2	1.6	15
10335111	4.8	1.6	15
10707501	6.4	1.6	15
10599201	8.0	1.6	15
10162031	1.6	2.4	15
10273411	3.2	2.4	15
10172031	4.8	2.4	15
10010061	6.4	2.4	15
10468582	8.0	2.4	15
10788061	9.60	2.4	15
<b>Santoprene</b>			
10152081	1.6	1.6	15
10777871	3.2	1.6	15
10529211	4.8	1.6	15
10786741	6.4	1.6	15
10203561	8.0	1.6	15
10509561	4.8	2.4	15
10060091	6.4	2.4	15
10171411	9.6	2.4	15



## TUBING, NATURAL RED RUBBER

- Higher resilience than most other polymers
- Temperature range: -40°C to 70°C
- Light and flexible, for transferring liquids, gases and dilute acids
- Heavy wall recommended for vacuum use
- Not suitable for use with petroleum oils and hydrocarbon solvents (see neoprene tubing)

**Fisherbrand™**

Cat. No	Bore size, mm	Wall thickness, mm	Length, m
<b>Normal wall, BS2775: 1987</b>			
11855512	3.0	0.75	10
11875512	6.5	1.5	10
11885512	8.0	2.0	10
11895512	10.0	2.0	10
11805522	12.5	2.25	10
11815522	16.0	3.25	10
11825522	20.0	3.25	10
11835522	25.0	3.25	10
<b>Medium wall</b>			
11597043	3.2	1.5	10
11507053	6.3	3.2	10
11517053	8.0	3.2	10
11527053	9.5	3.2	10
11537053	12.7	3.2	10
<b>Heavy wall, BS2775: 1987</b>			
11567562	3.0	3	10
11577562	5.0	4	10
11587562	6.5	5	10
11597562	8.0	6	10
11507572	10.0	7	10
11517572	12.5	8.5	10



## TUBING, SILICONE, PLATINUM CURED, BS 2775

- Split-resistant and high tear strength for peristaltic pump applications
- High clarity
- 60°IRHD ±5°C
- FDA, BGA & WRC approved
- Temperature range: -60°C to 200°C
- Can be used for most food, laboratory and pharmaceutical applications
- Anti-adherent, hydrophobic
- High electrical and ozone resistance

**Fisherbrand™**

Cat. No	Bore size, mm	Wall thickness, mm	Length, m
11532563	1	1	10
11542563	2	1	10
11552563	3	0.75	10
11562563	3	1	10
11572563	4	1	10
11582563	4	1.6	10
11592563	5	1.5	10
11502573	6	1.5	10
11512573	6.5	1.5	10
11522573	8	2	10
11532573	9	2	10
11542573	10	2	10
11552573	12.5	2.25	5
11562573	16	3.25	5
11572573	20	3.25	5
11582573	25	3.25	5



## TUBING, FOR VACUUM USE, TYGON™ R3603

Crystal clear to allow viewing for possible pump oil back-up which could cause pump damage. Extra heavy walls will withstand full vacuum of 759mmHg at 23°C and 686mmHg at 60°C. Will not swell closed should vacuum pump oil back up. Low vapour pressure makes it suitable for vacuum applications down to 10mmHg to 17mmHg at 21°C. Ideal for analytical testing of gases and vapours, it is also well suited for use in making manometers.

Cat. No	Bore size, mm	Wall thickness, mm	Length, m
10527741	4.8	4.8	15
10130121	6.4	4.8	15
10140121	9.5	6.4	15
12355909	12.7	8.0	15



## TUBING, VITON™ FLUOROELASTOMER

- Excellent chemical resistance, particularly to aggressive fuels, acids, animal and vegetable oils, solvents, alcohols and bleaching agents
- Good resistance to ozone and radiation
- Ideal for transferring corrosive liquids, even at high temperatures
- Shore hardness: 70°ShA ±5°
- Density: 1.83g/cm<sup>3</sup>
- Temperature range, °C: -20 to 300 (peaks to +300 possible)

**Fisherbrand™**

Cat. No	Bore size, mm	Wall thickness, mm	Length, m
11512583	1	1	5
11522583	1.5	0.75	5
11532583	2	1	5
11542583	3	1	5
11552583	4	1	5
11562583	5	1.5	5
11572583	6	1.5	5
11582583	6	3	5
11592583	8	1.5	5
11502593	8	2	5
11512593	10	2	5
11522593	12	2.5	5



## TUBING, NEOPRENE

- Resistant to heat, ozone, petroleum oils and hydrocarbon solvents
- Temperature range: -30°C to 100°C

**Fisherbrand™**

Cat. No	Bore size, mm	Wall thickness, mm	Length, m
<b>Normal wall, BS 2775: 1987</b>			
11845492	3.0	0.75	10
11855492	5.0	1.5	10
10366344	6.5	1.5	10
11875492	8.0	2.0	10
11885492	10.0	2.0	10
11895492	12.5	2.25	10
11805502	16.0	3.25	10
11815502	20.0	3.25	10
11825502	20.0	3.25	10
<b>Heavy wall, BS 2775: 1987</b>			
11835502	3.0	3	10
11845502	5.0	4	10
11855502	6.5	5	10
11865502	8.0	6	10
11577063	10.0	7	10
11587063	12.5	8.5	10



## POLYPROPYLENE CONNECTORS, BARBED STRAIGHT

- Barbed for quick and easy assembly
- For low-pressure applications (generally less than 30 psi)
- Sterilise with ethylene oxide (ETO) or gamma irradiation
- Natural polypropylene
- Good chemical resistance

**Fisherbrand™**

Cat. No	Tubing ID	Pack qty
15531295	4.8mm (3/16 inch)	10
12683606	6.4mm (1/4 inch)	10
15511295	8.0mm (5/16 inch)	10
15301377	9.6mm (3/8 inch)	10



## POLYPROPYLENE CONNECTORS, REDUCING

- Reducing nozzles for the reduction from bigger to small hoses
- Polypropylene
- Sterilisable
- Barbed



Cat. No	Fits Tubing	Pack qty
<b>10642482</b>	4 to 8/8 to 12mm	10
<b>10630143</b>	4 to 8/12 to 16mm	10
<b>10739792</b>	8 to 12/12 to 16mm	10



## PVDF CONNECTORS, CYLINDRICAL Y-SHAPE

- PVDF
- Temperature resistant up to +160°C max.
- Highly resistant to chemicals
- Sterilisable

Cat. No	Fits tubing ID	Pack qty
<b>11872303</b>	3mm to 5mm	10
<b>10688412</b>	5mm to 7mm	10
<b>10055010</b>	7mm to 9mm	10
<b>11862313</b>	9mm to 11mm	10
<b>10034920</b>	11mm to 13mm	10
<b>10066341</b>	13mm to 15mm	10



## POLYPROPYLENE CONNECTORS, STRAIGHT

- Polypropylene connectors, autoclavable
- Straight, with conical nozzle
- Fit various hose sizes



Cat. No	Description	Pack qty
<b>10249391</b>	Connector for 4mm to 6mm tubing	10
<b>10620143</b>	Connector for 5mm to 7mm tubing	10
<b>10198251</b>	Connector for 7mm to 10mm tubing	10
<b>10289341</b>	Connector for 10mm to 12mm tubing	10
<b>10138161</b>	Connector for 11mm to 14mm tubing	10
<b>10486891</b>	Connector for 14mm to 16mm tubing	10



## THREE-WAY VALVES PVDF

- Three-way valves are used for the transfer of liquids or gases in order to block the flow, release it, or reverse its direction.
- PVDF: excellent chemical resistance, transparent, suitable for food
- Operating temperature: PVDF +0°C up to +40°C
- Resistant to compression max. 1 bar
- With mounting plate for easy installation



Cat. No	Tubing ID, mm
<b>10454671</b>	5-7
<b>10232331</b>	7-9
<b>10798711</b>	9-11
<b>10777265</b>	11-13



## POLYPROPYLENE CONNECTORS, CYLINDRICAL Y-SHAPE

Safeguard a flexible and safe connection for demanding applications with these cylindrical Y connectors, available in a variety of sizes to extend, connect, branch, join and repair hoses and tubing.

- Resistant up to +135°C max.
- Sterilisable



Cat. No	Description	Pack qty
<b>10789592</b>	Connector Y 3mm to 5mm	10
<b>10617721</b>	Connector Y 5mm to 7mm	10
<b>10076241</b>	Connector Y 6mm to 8mm	10
<b>11836583</b>	Connector Y 7mm to 9mm	10
<b>10567312</b>	Connector Y 9mm to 11mm	10
<b>10014930</b>	Connector Y 11mm to 13mm	10
<b>11846603</b>	Connector Y 13mm to 15mm	10



## TWO-WAY VALVES PVDF

- PVDF: excellent chemical resistance, transparent, suitable for food
- Operating temperature: PVDF +0 to +40°C
- Resistant to compression max. 1 bar
- With mounting plate for easy installation



Cat. No	Tubing ID, mm
<b>10558871</b>	5-7
<b>10272231</b>	7-9
<b>10599392</b>	9-11
<b>10606295</b>	11-13





## POLYPROPYLENE CONNECTOR BOX

In this 'Magic Box' of connectors you can invariably find the appropriate hose connector you are looking for. Magic Box includes 56 different shapes and sizes.

- Polypropylene
- Shatterproof
- Colour: transparent



Cat. No	Description
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<b>10065150</b>	Polypropylene connector box
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## SIEVE SHAKER AS200 BASIC

AS200 vibratory sieve shakers are used in research and development, quality control of raw, interim and finished materials as well as in production monitoring. The controllable electromagnetic drive allows optimisation for different product types. Sharp fractions are obtained even after short sieving times. The AS200 Basic model is the economical version of the series, but still delivers Retsch quality and reliability. Typical application areas include cement clinker, chemicals, coffee, construction materials, fertilisers, fillers, flours, grains, metals powders, minerals, nuts, plastics, sand, seeds, soils and washing powder.

- Maintenance-free and easy operation, ergonomic design
- Digital display of performance and time
- Suitable for dry and wet sieving
- Excellent separation efficiency even with short sieving times
- 3-D throwing motion ensuring optimum use of the open sieve area
- Sieve stack up to 510mm height



Cat. No
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<b>15562515</b>	Retsch Sieve Shaker AS200 Basic
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## FLOW-THROUGH TUBING WEIGHT

- Flow-through PTFE tubing weight anchors tubing in receiving vessel. Accepts tubing with ID 4.8mm to 6.4mm (3/16" to 1/4")
- Fits Masterflex pump tubing sizes L/S 15, L/S 16, and L/S 25

**Fisherbrand™**

Cat. No	Description
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<b>15392959</b>	Tubing weight for 4.8mm to 6.4mm ID tubing
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## STAINLESS STEEL CANNULAS

- For use with Luer lock dispensing tip
- Autoclavable

**Fisherbrand™**

Cat. No	Description	Pack qty
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<b>15212665</b>	13 gauge	1
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<b>15331122</b>	16 gauge	1
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## SIEVE SHAKER AS300

The advanced AS300 Control analytical sieve shaker is used in research and development, quality control of raw, interim and finished materials as well as in production monitoring. The controllable electromagnetic drive allows optimisation for different product types. Sharp fractions are obtained even after short sieving times. The AS300 control is particularly designed for test sieves with a broader diameter of 305mm (as compared with the standard 200mm diameter) thereby offering a greater surface area with greatly reduced sieving times. With all-digital controls and calibration certificate, the AS300 control is indispensable for all users who attach importance to precision and operational convenience and need to comply with the guidelines of the ISO 9001. Typical application areas include cement clinker, chemicals, coffee, construction materials, fertilisers, fillers, flours, grains, metals powders, minerals, nuts, plastics, sand, seeds, soils and washing powder.

- Simple maintenance-free operation, ergonomic design
- Suitable for dry and wet sieving
- Excellent separation efficiency even with short sieving times
- 3-D throwing motion ensuring optimum use of the open sieve area
- Up to 99 sieving programs
- Low noise operation
- USB connection
- Sieve stack up to 510mm height
- Fulfils all criteria for measuring equipment related to ISO 9001



Cat. No
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<b>10681083</b>	Retsch Sieve Shaker AS300
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## STAINLESS STEEL TEST SIEVES

Use for separation, fractioning, or particle size determination. These stainless steel test sieves have an internal height of 50mm and diameter of 200mm.

- ISO 3310/1 compliant
- Supplied with compliance certificate type 2.1 according to EN 10204
- Available in a wide range of pore sizes from 10mm down to 20µm

**Fisherbrand™**

Cat. No	Pore size, µm
10514492	10000
10075021	9500
10156071	9000
10514302	8000
10780273	7100
10498531	6700
10208831	6300
10770273	5600
10320812	5000
10300672	4750
10688751	4500
10116601	4000
10127171	3550
10741433	3350
10741243	3150
10731243	2800
10208791	2500
10298781	2360
10015081	2240
10288781	2000
10583532	1800
10750473	1700
10380622	1600
10370622	1400
10700093	1250
10709902	1180
10799892	1120
10536222	1000
10166601	900
10719132	850
10156601	800
10741623	710
10136411	630
10054931	300
10457581	560

Cat. No	Pore size, µm
10269021	500
10476811	450
10791233	425
10584682	400
10176121	355
10514112	315
10166121	300
10015041	280
10448921	250
10065001	224
10310722	212
10448731	200
10238641	180
10418541	160
10370572	150
10749702	140
10447771	125
10370522	112
10437771	106
10166501	100
10320432	90
10505262	80
10279161	75
10126361	71
10360332	63
10015051	56
10229071	53
10005051	50
10504302	45
10730853	40
10594292	38
10594102	36
10248781	32
10488531	25
10760273	20



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## MAGNETIC STIRRER

Stir up to 40L with the Thermo Scientific™ Cimarec™ Power Direct magnetic stirrer, with integrated controller, ideal for high-capacity stirring requirements.

- 'Quick Stop' function stops the drive within two seconds, minimising after runs and reducing the risk of breakage
- Stir speeds from 100 to 2000rpm
- Integrated controller has an adjustable power setting that decreases power consumption and lowers heat output
- Sealed stainless-steel housing is easy to clean and chemical resistant
- Operating conditions are -10° to +40°C
- Protection Class IP22; easily cleaned with running water

Cat. No	Speed	Capacity, L	Dimensions, (h x l x w), mm
10642403	100 to 2000rpm	40	35 x 295 x 240



## VORTEX MIXER

- Speed: 0 to 3000rpm
- Touch or continuous operation
- Technopolymer body for higher chemical resistance
- Orbit diameter: 4.5mm
- Dimensions, internal [w x d x h], mm: 153 x 170 x 125

**Fisherbrand™**

Cat. No	Description
13214789	Vortex mixer, speed 0 to 3000rpm



Fisherbrand

## STIRRERS, OVERHEAD, DIGITAL

- Built for high volume/high viscosity lab or pilot plant applications
- High performance brushless DC motors
- Overload protection
- Hollow through shaft for easy impeller adjustment
- Clamp, stand and mixing impellers available separately
- Safety approved to EN 61326 CE / IEC 61010-1 and 61010-2-51, EMC EN 50081-1, EN 50082-1 ROHS, WEEE
- Three year warranty

Cat. No	Description
15203807	Overhead stirrer, 40 to 2000rpm, 25L
15293797	Overhead stirrer, high torque, 20 to 3000rpm, 60L



## SAFETY STORAGE CABINETS, UNDERBENCH TYPE 90

The new underbench cabinets from Asecos with a special height of 800mm fit perfectly underneath workbenches and worktops. They are perfect for the storage of larger containers because of the maximised interior height.

- Fire resistance of 90 minutes – type tested according to DIN EN 14470-1
- Three different models with doors or drawers available
- Cylinder lock with locking state indicator (red/green)
- Integrated air ducts ready for connection (NW 75) to a technical exhaust system
- Lots of interior configuration options including drawers, perforated insert, pull-out tray, collecting sump

asecos

Cat. No	Description
15365569	Safety storage cabinet, type 90, underbench, model UB90.080.110.060.2S, with two drawers and two perforated inserts
15385569	Safety storage cabinet, type 90, underbench, model UB90.080.110.060.2S, with two drawers, two perforated inserts and two second-level drawers
15395569	Safety storage cabinet, type 90, underbench, model UB90.080.110.075.2T, with two wing doors, one drawer and one bottom collecting sump
15305579	Safety storage cabinet, type 90, underbench, model UB90.080.110.075.2T, with two wing doors, two drawers and one bottom collecting sump
15315579	Safety storage cabinet, type 90, underbench, model UB90.080.110.075.2T, with two wing doors, one perforated insert and one bottom collecting sump
15345579	Safety storage cabinet, type 90, underbench, model UB90.080.059.060.S, with one pullout drawer and perforated metal plate insert
15365579	Safety storage cabinet, type 90, underbench, model UB90.080.059.060.S, with one pullout drawer, perforated metal plate insert and one second level drawer
15375579	Safety storage cabinet, type 90, underbench, model UB90.080.110.060.2S, with two drawers
15385579	Safety storage cabinet, type 90, underbench, model UB90.080.059.060.S, with one drawer



asecos

## STORAGE SAFETY CABINETS, UPRIGHT

- Professional storage and handling of hazardous materials
- 90 minute fire resistance (EN 14470-1 and EN 14470-2)
- 10 year warranty for Q-LINE cabinets
- Five year warranty for all other cabinets
- Delivery charge not included

Cat. No	Description	Dimensions, (w x d x h), mm
13469706	Safety cabinets Q-PEGASUS-90 Safety storage cabinet, grey, three shelves, one perforated metal plate insert, one bottom collecting sump 33L	1200 x 615 x 1955
15107303	K-PHOENIX-90 Combi safety storage cabinet, light grey. Left side: three shelves, one perforated metal plate insert, one bottom collecting sump 22L. Right side: 4 pull-out shelves incl. plastic sump	1200 x 615 x 1968
15101566	UB-S-90 Under bench safety storage cabinet, light grey, one perforated metal plate insert for pull-out sump. On castors with plinth, 30mm height	1100 x 570 x 600
15121866	G-ULTIMATE-90 Safety storage cabinet, light grey, with mounting rails, bottle holders and fold-away ramp, 250mm length	600 x 615 x 2050



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## WATER PURIFICATION SYSTEM, SMART2PURE™

### Powerful performance

- 3L/hr capacity

### Lasting economy

- Water purification progresses through independent cartridges with Aquastop quick connects for fast replacement
- Module 1: combination of pretreatment and the reverse osmosis membrane
- Module 2: polishing cartridge contains high quality ultrapure resin for consistent purity and long cartridge life

### Easy to operate

- Dispensing is easy and features variable speed to control flow
- The display can be tilted for optimal reading
- Optional UV bulb and UF ultrafilter to customise ultrapure water

### Placement options

- Position on laboratory bench
- Mount it on the wall

Cat. No	Description
11327021	Smart2Pure 3L/hr, with UV oxidation and 6L integrated tank
<b>Accessory</b>	
11327151	Pre-treatment pack, complete with a 5µm filter with activated carbon cartridge and a hardness stabiliser cartridge



### TRACEABLE™ THREE-LINE ALARM

- Pocket sized, 84mm x 25mm x 75mm
- Features: clock, count up/down, alarm, stopwatch, memory
- Displays three different countdown times simultaneously
- Three unique channels may be started individually or concurrently
- Memories return the display to the previously programmed time
- Perfect timer to dedicate to a group of repetitive tests
- Alarm: sounds at zero, "Time's Up" is displayed, timer begins counting up
- Chemical-resistant ABS plastic case, magnetic back, flip open easel
- Timing capacity: 99 hours, 59 minutes, 59 seconds
- Resolution: 1 second
- Accuracy: 0.01%
- Supplied with clip, stand, magnet, battery, Traceable™ Certificate



Cat. No	Description
11852031	Traceable™ Three-Line Alarm



### TRACEABLE™ FOUR-CHANNEL ALARM TIMER

- Pocket sized, 7 x 6.4 x 1.3cm
- Features: count up/down, time in/out, memories, alarm, 12/24 hour clock
- Large high display allows viewing from a distance
- Remarkable memory returns display to previously programmed countdown time at the touch of a button
- Extra-loud, high decibel alarms for 1 minute or can be silenced manually
- Timing capacity: 99 hours, 59 minutes, 59 seconds
- Resolution: 1 second
- Accuracy: 0.01%
- Supplied with clip, stand, magnet, battery, Traceable™ Certificate



Cat. No	Description
11745863	Traceable™ Four-Channel Alarm Timer



### TIMER, BASIC, SINGLE LINE

- Basic, easy-to-use timer
- Fits easily in your pocket
- Clear single-line LCD display
- Dimensions 5.6 x 5.6 x 1.3cm
- Includes two-year silver-oxide battery



Cat. No	Description
15177414	Timer, basic



### TRACEABLE™ WATER-RESISTANT FLASHING TIMER

- Features: water-resistant, splash-proof, count up/down, alarm, lanyard
- When zero is reached a bright red LED flashes and an audible alarm sounds for one minute or until manually turned off
- Timing capacity: 99 minutes, 59 seconds
- Resolution: 1 second
- Accuracy: 0.01%
- Supplied with lanyard, suction cup, magnet, and Velcro™, battery, Traceable™ Certificate



Cat. No	Description
11729805	Traceable™ Water-Resistant, Flashing Timer



### MECHANICAL TIMER

- Analogue mechanical timers eliminate the need for batteries. These Fisherbrand timers are adjustable from 0 to 60 minutes with 1 minute increments.
- Mechanical action - selecting the time also winds the timer
  - Oversized markings provide easy reading; pointer indicates time remaining
  - Counts down from maximum 60 minutes
  - Dimensions 60mm x 60mm
  - Sits upright or lays flat on the bench



Cat. No	Description
11784436	Mechanical timer, 60 minutes



### TRACEABLE™ DIGITAL CALIPERS

- Designed for laboratory use, measures in inches and millimeters
- Zero button instantly sets unit to zero when jaws are at any position—permits, without calculations, setting a Floating Zero™ or reference point to read 'greater than or less than results with a minus sign displayed'
- No lubrication is ever required on the ultra smooth slide bar, runs on the supplied battery for 10,000 hours
- Supplied with carrying case, battery, Traceable™ Certificate



Cat. No	11783217	11727927	11777105	11787105
<b>Material</b>	Stainless steel		Carbon fibre	
<b>Measuring range</b>	150mm	200mm	100mm	150mm
<b>Resolution</b>	0.01mm		0.1mm	
<b>Accuracy</b>	±0.03mm		±0.2mm	
<b>Depth Bar</b>	Yes		No	
<b>Thumb roller/Lock screw</b>	Yes		No	
<b>Non-metallic/non-conductive</b>	No		Yes	
<b>Dimensions</b>	229 x 76mm	280 x 76mm	178 x 63mm	241 x 76mm
<b>Weight</b>	142g	170g	28g	57g
<b>Accessories</b>				
Cat. No	Description			
15338754	Replacement battery			





## MELTING POINT APPARATUS, SMP20

- Digital selection and display of temperature
- Accuracy 0.1 degree resolution
- Easy to operate with plateau facility
- Ideal for routine testing

Fisherbrand™

Cat. No	Description
15169722	Melting point apparatus SMP20 with digital 0.1°C resolution



## CONDUCTIVITY/TDS METER, BENCH TOP, ORION™ STAR™ A112

Take simple measurements of conductivity (0.01 µS/cm to 200.0 mS/cm), TDS (1 to 1999mg/L) and temperature (-5.0° to 105.0°C) with the Thermo Scientific™ Orion™ Star A112 Conductivity Benchtop Meter and Probe for basic, easy lab testing. A large LCD displays conductivity or TDS readings along with temperature. Icons provide quick updates on battery life and completed calibration status. Simple button layout and onscreen messages help with calibration and setup menu choices.

- Large, informative screen clearly shows the main information, including conductivity or TDS reading, temperature in °C or °F, meter mode and power source
- AUTO-READ™ locks in the stable reading on your screen and ready indicator alerts when readings are stable
- Selectable cell constant
- Selectable reading reference temperatures of 20°C or 25°C for an accurate result
- Included electrode arm and redesigned holder make it easier to maintain and place probes into samples
- The IP54-rated housing can handle splashes and can be wall mounted if table space is a problem
- Three year meter warranty

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Cat. No	Description	Includes
11671439	Star™ A112 conductivity bench top meter kit	Meter, 011050MD Orion 2-cell conductivity sensor probe, conductivity cell cell, K=1.0, conductivity standard, 1.413µS/cm, 5mL x 60mL, electrode arm with redesigned holder and universal power adapter



## PH METERS ORION™ STAR A111, A211 AND A221

For simple routine pH, mV and temperature measurements, select the Thermo Scientific™ Orion™ Star A111 pH Benchtop Meter Kit with easy operation for basic lab testing. Select the Orion™ Star A211 pH Benchtop Meter Kit for more advanced measurement of pH, mV, ORP and temperature with printer or computer interfacing. Both kits come complete with actual meter, a triode pH/ATC electrode, solutions and stand. For accurate and reliable pH, mV, ORP and temperature measurements on the move, select the waterproof, rugged Orion™ Star A221 pH Portable Meter Kit, ideal for a wide range of applications and advanced pH analysis in the field.

- Large LCD display and simple operation
- Don't miss a reading - AUTO-READ™ on the A111/A211 models locks in the stable reading on your screen
- pH calibration with automatic recognition for USA/NIST and DIN buffers
- Non-volatile memory with time and date stamp
- Benchtop models include electrode arm and newly-designed probe holder make it easier to maintain and place probes
- Works with almost every AC power source with the included universal power adapter, or use four AA batteries
- IP54-rated housing handles splashes and benchtop models are wall-mountable if table space is a problem

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Cat. No	Description
11651439	Orion™ Star A111 pH benchtop meter kit with Triode pH/ATC electrode, solutions and stand
12923257	Orion™ Star A211 pH benchtop meter kit with ROSS Ultra Triode epoxy-body pH/ATC electrode, solutions and stand
15505199	Orion™ Star A221 pH portable meter kit with general purpose gel pH/ATC electrode, solutions and carrying case



## MULTIPARAMETER METERS, PORTABLE, MULTILINE™ IDS

- Pocket sized, single channel meters for pH, conductivity and dissolved oxygen measurement
- Intelligent sensor IDS
- Graphical display of measured value and calibrated range for continuous control
- One, two or three outputs to three selectable parameters
- Rugged, waterproof and durable construction for use in most indoor or outdoor environments

### Conductivity

- mS/cm 0.00 to 20.00
- TDS 0 to 1.999mg/L 0 to 199.9g/L



Cat. No	Description
11785184	Multi 3410 Set 5, includes: DO case set with optical IDS DO probe FDO™ 925-3 (Cat.No. 11785174), short instruction manual, stand, beaker, CD-ROM, driver software for USB, rechargeable batteries, cable, universal power supply and accessories
11775194	Multi 3410 Set E, includes: Multi case set with IDS sensors: digital pH electrode SenTix™ 980 (Cat. No.10805371), digital conductivity two-electrode cell LR 925/01, QSC kit, short instruction manual, stand, beaker, CD-ROM, driver software for USB, rechargeable batteries, cable, universal power supply and accessories
11755204	Multi 3420 Set H, includes: Multi case set with IDS sensors: digital pH electrode SenTix™ 950 (Cat.No. 10552858), digital conductivity four-electrode cell Tetra-Con™ 925 (Cat.No.11715184), QSC kit, short instruction manual, stand, beaker, CD-ROM, driver software for USB, rechargeable batteries, cable, universal power supply and accessories



## BENCHTOP PH/MV METERS, INOLAB™ MULTI 9310 IDS, MULTI 9420 IDS AND MULTI 9430 IDS

InoLab™ multiparameter benchtop meters are application-oriented benchtop sets for demanding multiple parameter monitoring: pH, mV, ISE, saturation, concentration, partial pressure, conductivity, specific resistance, salinity, TDS and temperature. A large glass shield protects the graphic display and the innovative and antibacterial keypad helps to protect against microbiological contamination. Constructed with a solid zinc die-casting lower case for protection from the environment.

- Single channel multi-parameter for IDS sensors, with digital sensor recognition and optional built-in printer

### Documentation according to GLP/AQA

- Automatic digital recording of sensor data for definite traceability of all values
- Optional user administration for access control and documentation
- Transfer of all data as .csv format via USB interface to a PC, Excel add-in for formatted input into spreadsheet (included in delivery or as download)
- Output via optional built-in printer

### The IDS sensors combine proven technology with new advantages

- Premium, enhanced sensor technology combined with most advanced measurement electronics
- IDS sensors store serial numbers and calibration history – ready for immediate operation
- Current rating of sensor quality with IDS pH electrodes by QSC (Quality Sensor Control)
- IDS conductivity measurement: Two sensors for covering almost all applications

	inoLab™ Multi 9310 IDS	inoLab™ Multi 9420 IDS	inoLab™ Multi 9430 IDS
Parameters	pH, mV, saturation, concentration, partial pressure, conductivity, specific resistance, salinity, TDS, temperature	pH, mV, saturation, concentration, partial pressure, conductivity, specific resistance, salinity, TDS, temperature	
Digital/IDS sensor	Yes	Yes	
Sensor channels	1 universal channel	2 universal channels	3 universal channels
Analogue pH/Redox sensors	ADA S7/IDS (optional)	ADA 94 pH/IDS DIN or BNC	
Temperature compensation	All except ORP	All except ORP	
Calibration points pH	1 to 5	1 to 5	
ISE		2 to 7 adapter required	
DO	1	1	
Conductivity	1	1	
Calibration memory	Max. 10	Max. 10	
Calibration timer	1 to 999 days	1 to 999 days	
Memory	Manual: 500 data sets Automatic: 5000 data sets	Manual: 500 data sets Automatic: 10000 data sets	
Logger	Yes	Yes	
Interface	Mini USB-B	USB-A, Mini USB-B	
GLP/AQS support	Yes	Yes	
Display	Black and white graphic display	Colour graphic display	
Optional printer	Yes	External	
Others	CMC, QSC	Anti-bacterial keyboard, QSC, CMC, exchangeable firmware	
Power supply	Universal power supply, batteries (4 x 1.5V/AA)	Universal power supply	



Cat. No	Model	Description
<b>13593940</b>	inoLab Multi 9310 IDS	Digital multiparameter bench top meter for IDS sensors, for measurements/documentation according GLP/AQA, with single channel input for pH/mV, DO and conductivity, with universal power supply, stand and operation manual, software and USB cable
<b>13503950</b>	inoLab Multi 9310 IDS Set 1	Digital multiparameter bench top meter, with IDS electrode SenTix™ 940 buffer solutions, KCL, power supply, stand, software and USB cable
<b>13513950</b>	inoLab Multi 9310 IDS Set 2	Digital multiparameter bench top meter, with IDS electrode SenTix 98, buffer solutions, KCL, power supply, stand, software and USB cable
<b>13523950</b>	inoLab Multi 9310 IDS Set 3	Digital multiparameter bench top meter, with TetraCon™ IDS electrode buffer solutions, KCL, power supply, stand, software and USB cable
<b>12623800</b>	inoLab Multi 9310 IDS Set C	Digital multiparameter bench top meter, with IDS electrode SenTix 940 buffer solutions, KCL, IDS sensor TetraCon 925, conductivity standard, power supply, stand, software and USB cable
<b>12642956</b>	inoLab Multi 9420 IDS	Professional digital multiparameter bench top meter for IDS sensors, for measurements/documentation according to GLP/AQA, with dual channel input for pH/ mV, DO and conductivity, with universal power supply, stand and operation manual, software and USB cable
<b>12652956</b>	inoLab Multi 9420 IDS Set B	Professional digital multiparameter bench top meter, with IDS sensors: digital IDS pH electrode SenTix 980 (Cat. No 10805371), buffer 4, 7 and 10.01, 3mol/L KCl, optical IDS DO sensor FDO 925 (Cat. No 10604635)
<b>12662956</b>	inoLab Multi 9420 IDS Set C	Professional digital multiparameter bench top meter, with IDS sensors: digital IDS pH electrode SenTix 980 (Cat. No 10805371), buffer 4, 7 and 10.01, 3mol/L KCl, digital IDS conductivity cell TetraCon™ 925 (Cat. No 11715184), 0.01mol/L KCl, conductivity standard
<b>12672956</b>	inoLab Multi 9420 IDS Set E	Professional digital multiparameter bench top meter, with IDS sensors: digital IDS pH electrode SenTix 980 (Cat. No 10805371), buffer 4, 7 and 10.01, 3mol/L KCl, digital IDS conductivity cell LR 925/01 (Cat. No11745184)
<b>12682956</b>	inoLab Multi 9430 IDS	Professional digital multiparameter bench top meter for IDS sensors, for measurements/documentation according to GLP/AQA. With triple channel input for pH/ mV, DO and conductivity. Single instrument with universal power supply, stand and operation manual, software and USB cable
<b>12692956</b>	inoLab Multi 9430 IDS Set B	Professional digital multiparameter bench top meter, with IDS sensors: digital IDS pH electrode SenTix 980 (Cat. No 10805371), buffer 4, 7 and 10.01, 3mol/L KCl, optical IDS DO sensor FDO 925 (Cat. No 10604635)
<b>12602966</b>	inoLab Multi 9430 IDS Set C	Professional digital multiparameter bench top meter, with IDS sensors: digital IDS pH electrode SenTix 980 (Cat. No 10805371), buffer 4, 7 and 10.01, 3mol/L KCl, digital IDS conductivity cell TetraCon 925 (Cat. No 11715184), 0.01mol/L, conductivity standard
<b>12612966</b>	inoLab Multi 9430 IDS Set E	Professional digital multiparameter bench top meter, with IDS sensors: digital IDS pH electrode SenTix 980 (Cat. No 10805371), buffer 4, 7 and 10.01, 3mol/L KCl, digital IDS conductivity cell LR 925/01 (Cat. No11745184)
<b>12603056</b>	inoLab Multi 9430 IDS Set K	Professional digital multiparameter bench top meter, with IDS sensors: digital IDS pH electrode SenTix 980 (Cat. No 10805371), buffer 4, 7 and 10.01, 3mol/L KCl, optical IDS DO sensor FDO 925 (Cat. No 10604635), digital IDS cond cell TetraCon 925 (Cat. No 11715184), 0.01mol/L KCl, cond standard



## ACCUMET™ XL600 MULTIPARAMETER BENCHTOP METER KIT

Fisherbrand accumet™ XL benchtop meters bring advanced features with simplicity to the laboratory. The colour touchscreen is vivid, with newly added features including two stirring probe ports, a 3-position electrode holder, upgradeable software, and USB & RS232 connectivity.

- This XL600 kit includes the actual meter, a self-stirring BOD probe (13-620-SSP), TRIS compatible accuTupH electrode (13-620-183A), ATC probe (13-620-19), conductivity/temp probe (13-620-100), electrode arm, RS-232 and USB cables, and a 110/220V power supply
- High-resolution colour display and improved touchscreen with glass/glass sensitivity provides unmatched ease of operation and setup
- Display up to four measurements (2xBNC, Conductivity, & DO) simultaneously
- DO mode calculates five-day BOD testing, OUR, and SOUR
- Salinity correction and automatic barometric pressure compensation with built-in barometer enhance accuracy
- Dual BNC channels; use them for pH or mV or ion selective measurement
- Reads ISE in ppm, %, mg/mL, and mole/L
- Direct and indirect ISE measurements, including known addition and subtraction methods, and analyte
- Preferred language options
- Password-driven security features
- Wall-mounting back panel creates additional bench space if required



Cat. No	Description
<b>12830653</b>	XL600 Dual pH/ISE/Conductivity/DO Deluxe Meter Kit



## SPECTROPHOTOMETERS, PHOTOLAB 7000 SERIES

- The spectrophotometers photoLab™ 7100 VIS and photoLab™ 7600 UV-VIS combine routine analysis with spectral analysis and pioneering procedure OptRF
- New reference beam optics and new brilliant colour display
- Menu-guided operation with comprehensive programming options
- Features pioneering Optical Reagent-Free ('Opt-RF') measurement technology for COD, NO3 and NO2 in wastewater and effluent



	photoLab™ 7100 (VIS)	photoLab™ 7600 (UV/VIS)
Wavelength range	320 to 1100nm	190 to 1100nm
Optics	Grid monochromator with step motor and reference beam, 4nm bandwidth	Grid monochromator with step motor and reference beam, 4nm bandwidth
Lamp	Wolfram-Halogen	Xenon flash lamp
Measurement/programming	Concentration, absorbance, % transmission, kinetics and spectra in Abs or % transmission, multi-wavelengths and multi-step readings	Concentration, absorbance, % transmission, kinetics and spectra in Abs or % transmission, multi-wavelengths and multi-step readings
Scan speed	700 to 2000nm/min, scans in 1, 2, 5, 10nm steps of wavelength range	700 to 2000 nm/min, scans in 1, 2, 5, 10nm steps of wavelength range
Wavelength accuracy/reproduceability	±1nm / <0.5nm	±1nm / <0.5nm
Photometric accuracy/reproduceability	- 0.003 E for E < 0.600; 0.5% of the display for 0.600 < E < 2.000	ATC / MTC (0 to 100°C) (pH only)
Methods and profiles	>200 pre-programmed methods, 1.000 user-defined methods, 20 profiles for kinetics and spectra, comprehensive programming options	>200 pre-programmed methods, 1.000 user-defined methods, 20 profiles for kinetics and spectra, comprehensive programming options
Interface/update	1 USB-A, 1 USB-B, 1 Ethernet / update via internet and USB-Stick	1 USB-A, 1 USB-B, 1 Ethernet / update via internet and USB-Stick

Cat. No	Description
<b>15335409</b>	PhotoLab 7100 VIS spectrophotometer, 320 to 1100nm
<b>15345409</b>	PhotoLab 7600 UV/VIS spectrophotometer, 190 to 1100nm



## SPECTROPHOTOMETERS, VIS AND UV-VIS, GENESYS™ 10S

The Thermo Scientific GENESYS 10S Vis and UV-Visible spectrophotometers are robust and reliable instruments which are designed to be easy to programme and easy to use, and are therefore ideal for basic QA/QC and routine analyses in a range of working environments. These compact instruments offers locally controlled functionality together with USB outputs for data export and single and multi-sampling capability as standard.

- Small footprint for easy transport and storage
- Embedded software and on-board library for data analysis and storage
- Optical design: dual beam - internal reference detector
- Photometric linearity: 3.0 (Vis), 3.5 (UV-Vis) Abs
- Spectral bandwidths: 5nm (Vis), 1.8nm (UV-Vis)
- Voltage: 100/240V
- Wavelength ranges: 325-1100nm (Vis) and 190 to 1100nm (UV-Vis)
- Wavelength scan speed: 3600nm/min



Cat. No	Description
<b>12684765</b>	Spectrophotometer Genesys 10S, VIS
<b>12104972</b>	Spectrophotometer Genesys 10S, UV-VIS



## TRACEABLE™ TOTAL-RANGE THERMOMETER

Technologically advanced, pocket-size thermometer with water-resistant case. Constructed of shock-resistant ABS plastic, the Total-Range Thermometer is designed for rough handling. Water-resistant case stops dirt, dust, fumes, and water.

- Very wide thermometer range from -200°C to +1370°C
- Unit can recall minimum and maximum temperature readings captured during any time; updates display twice a second
- HI/LO Alarm: indicates when temperature rises above or falls below high/low set points, 1° increments, °C/°F switchable
- Timer feature displays duration of temperature conditions and time tests; capacity: 23 hours 59 minutes to 1 minute; resolution: 1 second
- Probe range (supplied) -40 to 250°C continuous or 300°C short-term; accepts all Type K thermocouples
- Supplied with flip-out stand, PVC casing, 1.2m Type K beaded probe, batteries, Traceable™ Certificate



Cat. No	Meter Range	Resolution	Accuracy
<b>11749765</b>	-200 to 1370°C	0.1° and 1°	±1°C between -50°C to 740°C, otherwise ±2°C



## PORTABLE VISCOMETERS

Portable battery operated rotational viscometers with one button operation for quick and reliable test in the workplace or out in the field. Viscosity is shown directly on an LCD display. With a carrying case and three measuring systems.

- Recommended for printing inks, paints, inks; shampoos, creams, lotions
- For oils, greases, pastes
- Also for sauces, thickeners and other foodstuffs
- Temperature range, °C : Up to +150
- Rotor speed, rpm : 62.5
- Reproducibility : ±1%

Cat. No	Viscosity range, mPas
<b>10048852</b>	1.5 to 330mPas
<b>10670863</b>	0.3 to 4000dPas



### AUTOCLAVABLE BAGS

- For bagging-up and safe autoclaving, especially soiled items
- Natural polypropylene
- Thickness: 40µm
- Range of sizes



Cat. No	Height, mm	Width, mm	Pack qty
11830482	400	255	500
11840482	500	300	500
11723244	600	400	500
11850482	780	400	500
11773244	780	600	500



### 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	1000	50	145	115	100



### LOW-FORM PLASTIC BEAKERS

- No-drip single-spout design for precision pouring control
- Highly resistant to most chemicals, including the strongest sulfuric, nitric, chromic and phosphoric acids—will not contaminate contents with leachables
- Made from autoclavable PFA plastic
- Not for use on hotplates



Cat. No	Capacity, mL	Pack qty
10567321	50	6
10788671	100	6
10446091	250	6
10035831	600	4
10770412	1000	4



### 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	1000	1
10762751	2000	1
10237860	5000	1



### GRADUATED PFA BEAKERS

- Withstands exposure to extreme temperatures from -270° to +250°C
- Rigid and translucent, enabling easy and consistent viewing of liquid levels
- Moulded-in graduations in both oz. and mL won't wear off with continuous use or washings
- Excellent chemical resistance to strong oxidising agents, acids, hydrocarbons and ketones make these beakers useful for a broad range of high-purity applications
- Moulded-in rectangular handle for easy, safe handling and pouring
- Autoclavable



Cat. No	Capacity, mL	Pack qty
10480333	1000	1
10565781	3000	1



### SAFETY BOTTLE CARRIER, LDPE

- Epoxy-coated handle locks in place while carrying contents
- Clear cap allows identification of colour-coded closure on acid bottles and protects bottle closure
- Cap twists for removal from cover - no need to remove bottle from carrier to pour
- Cushions glass bottles from breakage

Cat. No	Holds, L	Pack qty
10196750	2.5	Each
10491921	4	Each



thermo scientific

## BOTTLES, FLUORINATED HDPE

Safe, durable, low cost range with enhanced long term container performance. Fluorinated inside and outside to reduce solvent absorption and penetration. Useful for most acids, alkalis and aggressive organic solvents. With fluorinated polypropylene screw closure. Leakproof.

Cat. No	Capacity, mL	Neck size, mm	Height, mm	O.D., mm	Pack qty
<b>Narrow mouth</b>					
10702532	250	17	133	61	12
10382991	500	21	171	73	12
10643121	1000	27	216	92	6
11359614	2000	27	246	122	1
10159360	4000	27	334	153	1
<b>Wide mouth</b>					
11359584	125	28	100	50	12
10329970	250	33	131	61	12
10320391	500	43	168	73	12
10421001	1000	53	199	92	6
11379654	2000	89	244	120	1



## BOTTLES, SQUARE WIDE NECK, HDPE

- Bottles with screw cap and stopper
- Certified free of heavy metals
- Food grade
- Polyethylene (HDPE)
- 128 EAN bar code for product traceability
- Aseptic production

Cat. No	Capacity, L	Neck I.D., mm	Dimensions, L x D x H, mm	Pack qty
11793024	150	37	50 x 50 x 95	300
11763054	250	37	58 x 58 x 100	210
11773064	500	58	76 x 76 x 145	175
11728643	1000	58	96 x 76 x 185	90
11743044	2000	58	109 x 96 x 230	50



## BOTTLES, ROUND WIDE NECK, HDPE

- Single use, HDPE, round bottles
- Bottles are screw cap assembled and set in cases
- Aseptic production
- For research use only, unless otherwise indicated

Cat. No	Capacity, L	Pack qty
<b>Double closure polyethylene seal and screw cap</b>		
11733024	100	335
11723064	250	145
11713094	500	140
11778653	1000	68
11713054	2000	25



## BOTTLES, ROUND, SODA GLASS

- Lightweight screw-top bottles in clear or amber glass
- ISO range for liquids with fitted 28mm white polypropylene tamper evident viston closure and polycone liner
- Type III soda lime glass

Fisherbrand™

Cat. No	Capacity, L	Thread style	Height, mm	Diameter, mm	Pack qty
<b>Clear</b>					
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	1000	R3/28	215.6	97.5	10
<b>Amber</b>					
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	1000	R3/28	215.6	97.5	10





### BUCKETS, HDPE

- High-density polyethylene construction offers more durability than hard rubber
- Polyethylene-coated wire bail handle provides a comfortable and sturdy grip
- Moulded-in graduations in litres and pints are easy-to-read

Cat. No	Capacity, L	Pack qty
10274161	9.5	6



### BUCKETS, POLYPROPYLENE

- White polypropylene pails offer sturdy construction for long-lasting use
- Nylon-coated wire bail handle provides a comfortable and sturdy grip
- Moulded-in graduations in litres and pints are easy-to-read
- Autoclavable

Cat. No	Capacity, L	Pack qty
10345801	7.6	Each
10491103	10.4	Each
10162301	13.2	Each



### HEAVY-DUTY POLYPROPYLENE CARBOYS

- Squat form carboys, for easy placement on shelves or bench top, with moulded in handle for safe and secure handling
- Moulded graduations in litres and moulded caps with drill guides for easy location of probes and feed lines.
- Stopcock opens and closes in a quarter turn
- Autoclavable
- Closures and stopcocks can be removed or loosened before autoclaving to avoid accidental implosion

Azlon

Cat. No	Capacity, L	Cap size, mm	Height with cap, mm	Width, mm
11393454	5	45	270	220
11303464	10	90	360	280
11313464	25	90	420	350



### CARBOYS, HDPE OR POLYPROPYLENE

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

Fisherbrand™

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



### CARBOYS, FLUORINATED HDPE

- Moulded-in graduations of one gallon and 5L increments
- Moulded-in spigot boss provides strength and leak resistance
- Rectangular shape saves valuable space
- ETFE spigot and fluorinated white polypropylene screw closure

thermo scientific

Cat. No	Capacity, L	Height, mm	Neck I.D., mm	Pack qty
10440811	9	358	86	1
10050451	20	381	86	1



### JERRYCANS, NARROW NECK

- Use these polythene jerrycans for a variety of liquid storage applications
- Integrally moulded handle and tamper evident screw cap

Fisherbrand™

Cat. No	Capacity, mL	Height, mm	Neck O.D., mm	Neck I.D., mm	Pack qty
11597433	1000	165	38	125	1
11507443	2500	205	45	150	1
11517443	5000	282	38	189	1
11527443	10000	314	61	230	1
11537443	25000	470	61	295	1





## STORAGE JARS, POLYPROPYLENE

- Made from heavy-duty translucent polypropylene
- Ideal for general laboratory applications.
- Excellent chemical resistance
- Polypropylene screw closure - leakproof
- Autoclavable with cap loosened

**Fisherbrand™**

Cat. No	Capacity, mL	Cap size, mm	Height, mm	O.D., mm	Pack qty
<b>11523242</b>	30	33/R3	45	36	10
<b>11533242</b>	60	33/R3	80	36	10
<b>11543242</b>	125	38/R3	93	50	10
<b>11553242</b>	150	58/R3	68	60	10
<b>11563242</b>	250	58/R3	114	61	10
<b>11573242</b>	500	58/R3	140	76	10
<b>11583242</b>	1000	70/R3	200	90	5



## STORAGE JARS, PTFE

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

**Fisherbrand™**

Cat. No	Capacity, mL	Height, mm	Diameter, mm	Pack qty
<b>10313502</b>	15	34	34	1
<b>10323502</b>	30	62	34	1
<b>10140342</b>	60	46	60	1
<b>10291952</b>	120	62	72	1
<b>10199901</b>	240	100	72	1
<b>10724143</b>	360	95	90	1
<b>10393882</b>	480	125	90	1
<b>10363602</b>	1000	160	110	1



## CONTAINERS, SCREW CAP

- Manufactured from polypropylene
- Autoclavable wide mouth containers with unlined screw caps
- Good chemical resistance
- Ideal for storage of samples, powders, animal feeds, and much more

**Azlon**

Cat. No	Capacity, mL	Height, mm	Diameter, mm	Pack qty
<b>12046902</b>	30	43	43	72
<b>12830347</b>	60	47	53	48
<b>12571496</b>	125	60	70	36
<b>12594997</b>	250	66	89	36
<b>12501486</b>	500	97	89	24
<b>12545007</b>	950	100	120	24
<b>12511486</b>	1200	132	120	24



## ROUND CONTAINER WITH COVER, HDPE

- High-density polyethylene containers provide excellent chemical and temperature resistance protecting contents from contamination
- Easy-grip moulded-in handles are comfortable and durable for lifting and moving
- Positive-lock lid provides a tight seal for transport or storage

Cat. No	Capacity, L	Height, mm	O.D., mm	Pack qty
<b>10070631</b>	9.5	240	305	Each
<b>10204311</b>	20	380	305	Each
<b>10692482</b>	30	390	305	Each



## PRINTED JUGS, POLYPROPYLENE

- Tapered jugs in high clarity polypropylene
- Crisp blue printed graduations
- Autoclavable at 121°C
- Ergonomically designed handle with thumb grip for easy carrying

**Azlon**

Cat. No	Capacity, mL	Height, mm	Diameter, mm	Pack qty
<b>12623142</b>	50	60	50	5
<b>11980985</b>	100	72	61	5
<b>10667825</b>	250	100	80	5
<b>10074084</b>	500	120	102	1
<b>11363434</b>	1000	150	122	1
<b>10718205</b>	2000	187	151	1
<b>11990985</b>	3000	215	172	1
<b>10617065</b>	5000	253	199	1



## HPLC COLUMNS, ACCUCORE™

Thermo Scientific™ Accucore™ HPLC and UHPLC columns are a family of products based on Core Enhanced Technology™ that provide ultimate core performance and allow you to maximise the return on your investment. Accucore columns are ideal for applications such as analysis of herbicide or pesticide residues in water.

- Solid core particles for fast separations with superb resolution
- Exceptionally rugged and easy to use columns
- Easy interactions: Seamless workflow options (column, system and data processing combined), allows for simple and easy to implement separations
- Application areas: explosives, pesticides, herbicides, statins, beta blockers, PAHs, ibuprofen

thermo scientific

Cat. No	Description
15418060	Accucore Vanquish C18+, 100mm x 2.1mm, 1.5µm
12625695	Accucore-150 C18, 150mm x 2.1mm, 2.6µm
11317471	Accucore C18, 100 x 2.1mm, 2.6µm
11337501	Accucore PFP 100mm x 2.1mm, 2.6µm
11367531	Accucore RP-MS 150mm x 2.1mm, 2.6µm



## CRUCIBLES, ALUMINA CERAMIC, ALSINT 99.7, SQUAT FORM

- Al<sub>2</sub>O<sub>3</sub> content: 99.7%
- Upper temp. limit for use: 1700°C to 1750°C
- Chemical resistance

Cat. No	Capacity, mL	Diameter (external), mm	Diameter (internal), mm	Height (external), mm
10291971	60	54	24	50



## CUVETTES, DISPOSABLE, POLYSTYRENE

- Transparency: approximately 90% between 400nm and 800nm
- Material: PS
- Pathlength, mm: 10
- Wavelength range, nm: 336 to 850

Fisherbrand™

Cat. No	Type	Dimensions, mm	Capacity, µL	Pack qty
11537692	Macro	12.5 x 45	4000	100
11547692	Semi-micro	12.5 x 45	1600	100
11847832	Semi-micro	12.5 x 45	1600	1000



## SAMPLE DIPPERS, STERILE, DIPPA™

- Polystyrene
- With caps
- Facilitate sample collection and transportation to the lab in a single container using Thermo Scientific™ Sterilin™ Dippas™ to reduce risk of cross-contamination
- Individual packaging

thermo scientific

Cat. No	Capacity, mL	Colour	Handle length, mm	Pack qty
11729352	30	Clear	200	50
11788848	100	Clear	385	100
11748938	250	Clear	330	50
11738938	30	Blue	200	50
11798848	100	Blue	385	100
11758938	250	Blue	330	50



## FILTER PAPERS, GLASS MICROFIBRE, GF/C, 1.2µm

- For the retention of particles and larger microorganisms
- An extremely efficient filter for the collection of suspended solids in potable, natural and industrial waters

Distributor  
GE Healthcare

Cat. No	Diameter, mm	Pack qty
11360364	37	100
11360584	47	100
11370584	50	100
11380584	55	100
10261601	70	100
11300594	90	100



## FILTER PAPERS, GLASS MICROFIBRE, GF/F, 0.7µm

- Used to filter finely precipitated proteins
- An ultrafine filter capable of retaining particles as small as 0.7µm in liquids, but unlike membrane filters it has a rapid flow rate and an extremely high loading capacity
- It can be used in conjunction with GF/D range (please visit our website) for the successful clarification of 'extremely difficult' biochemical solutions and fluids

Whatman  
Part of GE Healthcare

Cat. No	Diameter, mm	Pack qty
11350604	25	100
11370604	47	100



## CHROMATOGRAPHY PAPER CHR 100

- Flow rate: 145mm/30min
- Format: sheet
- Grade: 501
- Film thickness: 0.19mm
- Dimensions (l x w): 200 x 200mm
- Fisherbrand™ CHR 100 grade of paper may be used in many applications where Whatman No. 1 CHR or Schleicher & Schuell No. 2043a are used

Fisherbrand™

Cat. No	Description	Pack qty
11718742	Chromatography paper CHR 100	100



## FILTER UNITS, SYRINGE, NON-STERILE

- Perfect for daily routine analysis
- Nylon membrane for aggressive aqueous solutions, hydrophobic PTFE for aqueous or organic solutions

Fisherbrand™

Cat. No	OD, mm	Pore size, µm	Membrane	Pack qty
15121499	25	0.2	Nylon	50
15131499	25	0.45	Nylon	50
15181489	25	0.2	PTFE Hydrophobic	50
15101499	25	0.45	PTFE Hydrophobic	50
15141499	25	0.2	PTFE Hydrophilic	50
15151499	25	0.45	PTFE Hydrophilic	50
15161499	13	0.2	PTFE Hydrophilic	100
15171499	13	0.45	PTFE Hydrophilic	100
15181499	33	0.2	PES	50
15191499	33	0.45	PVDF	50
15206869	33	0.2	PES	50
15216869	33	0.45	PES	50



## FILTER UNITS, SYRINGE, NON-STERILE, MILLEX™

- For sample preparation prior to instrumental analysis, suitable for coarse to fine filtration of aqueous, organic and aqueous/organic mixture solutions

M

Cat. No	Pore size, µm	Membrane	Housing	Sterile	Pack qty
<b>13mm diameter (Male luer slip outlet, female Luer-Lok™ inlet)</b>					
10379730	0.45	Hydrophilic PTFE	HDPE	No	100
<b>25mm diameter (Male luer slip outlet, female Luer-Lok™ inlet)</b>					
10044350	0.45	Hydrophilic PTFE	HDPE	No	50
<b>33mm diameter (Male luer slip outlet, female Luer-Lok™ inlet)</b>					
10268401	0.22	PES	-	Yes	50
10487342	0.45	PVDF	-	Yes	50
10460031	0.45	MF Millipore	Acrylic	Yes	50



## FILTER UNITS, FLASK TOP, VACUUM, WITH RECEIVER, STERICUP™

- Tapered flask design for easy handling
- Recessed receiver bottom for easy stacking and storage of capped flasks
- Filter diameter: 73mm
- Funnel tab secures accessory AP20 glass microfibre prefilter (10258330 sold separately, please see our website) for hard to filter solutions
- Each unit is gamma radiation sterilised

M

Cat. No	Volume, mL	Pore size, µm	Membrane	Pack qty
10411741	150	0.22	PES	12
10176660	250	0.22	PES	12
10186660	250	0.22	PVDF	12
10697491	500	0.22	PES	12
10156040	500	0.22	PVDF	12
10440011	1000	0.22	PES	12
10237950	500/1000	0.22	PES	12



## FUNNELS, PTFE

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

Fisherbrand™

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



## FUNNELS, POLYPROPYLENE

- Durable polypropylene construction with external ridges and ribbing to prevent vapour lock
- Autoclavable to 120°C (248°F)

Fisherbrand™

Cat. No	Top diameter, mm	Stem length, mm	Stem outer diameter, mm	Capacity, mL	Pack qty
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



## SAFETY WASTE FUNNELS

Safety waste funnels have a standard Thermo Scientific Nalgene™ closure for screwing onto a waste container (bottle or carboy, supplied where indicated below) for temporary disposal of most chemical and biological wastes. Product is not a safety can as defined by OSHA guidelines.

- Hinged cover seal and long funnel stem reduces evaporation
- Built-in vent facilitates disposal
- Constructed of chemical and break resistant plastic
- For temporary waste disposal only

thermo scientific

Cat. No	Description	Pack qty
11764434	140mm Ø Safety waste funnel HDPE PP closure	Each
11774434	250mm Ø Safety waste funnel HDPE PP closure	Each
10098021	140 x 450mm Safety waste funnel HDPE with 4L bottle	Each
10084680	250 x 490mm Safety waste funnel HDPE with 10L bottle	Each



## ADHESIVE ENTRYWAY MATS

These sticky mats are ideal for cleanrooms within the electronic industry, pharmaceutical industry, hospitals, laboratories and food industries for maintaining a critical clean environment.

- Highly effective in dust removal ability and easy to use
- Polyethylene film coated with environment-friendly water-borne acrylic adhesive
- Dust removal: 99%
- Tensile strength: >1,5kgf/cm<sup>2</sup>
- 30 layers

Fisherbrand™

Cat. No	Dimensions, l x w, cm	Colour	Pack qty
11893181	46 x 114	White	120
11803191	61 x 114	White	120
11952667	46 x 91	Blue	120
11823191	46 x 117	Blue	120
11843191	61 x 117	Blue	120



## UNIVERSAL PH TEST STRIPS

- 85mm x 6mm sticks with different indicator papers sealed onto each test strip
- Provides outstanding measurements safely over the designated pH range
- Colour scale on the test strip box allows exact comparison with the colour developing on the test strip pad
- Indicator is covalently bonded on the pads and does not bleed into the sample – can be left in sample for an indefinite time without contamination
- Hydrophobic plastic handle protects user from sample and allows pH testing in narrow and deep vessels

Fisherbrand™

Cat. No	Description	Pack qty
10642751	pH range 0.0 to 14.0	100



## PLUNGER CAN

- Capacity: 0,5L to 4L
- Quart steel
- Dispense flammable liquids and solvents safely without waste or exposure
- Plunger assembly made of chemically resistant Ryton™ and brass

JUSTRITE

Cat. No	Description
11923579	Plunger can 0.5L
10216094	Plunger can 1L
11943579	Plunger can 2L
11943629	Plunger can 4L



## SAFETY CAN WITH TAP

- Type I safety can
- FM approved; CARB, NFPA, OSHA compliant
- Steel construction
- Self-closing dispensing tap allows safe dispensing of hazardous liquids into test tubes, flasks and beakers
- Self-close, pressure-relief cap and stainless steel flame arrester
- Vacuum-relief valve within the lid for smooth liquid flow
- Can be used on the shelf

JUSTRITE

Cat. No	Description
11984957	Safety can with tap



## PIPETTE FILLERS, UNIVERSAL

- The side-mounted thumbwheel is effortlessly manipulated for exact aspiration or drop-wise delivery
- The plunger is easily depressed for quick dispensing
- Colour coded barrel indicates pipette size

Fisherbrand™

Cat. No	Description
15209805	Pipette filler, universal, blue, 2mL
15239805	Pipette filler, universal, green, 10mL
15229805	Pipette filler, universal, red, 25mL
15219805	Pipette controller, large capacity 0.1mL to 100mL



thermo scientific

## PIPETTE FILLER, S1

The portable lightweight S1 pipette filler is designed for use with either glass or plastic serological pipettes. It offers effective streamlined pipetting performance with maximum pipetting comfort.

- Backlit LCD display
- Quick charging, long operation time
- Separate aspirate and dispense buttons

Cat. No	Description
10626293	S1 pipette filler, 1 to 100mL, blue



thermo scientific

## AUTOMATIC PIPETTE WASHERS, HDPE

- All components manufactured from HDPE
- Parts can be purchased separately or as part of a set

Cat. No	Depth, mm	Length, mm	Height, mm
10380621	155	406 (pipette max.)	775
10731421	155	610 (pipette max.)	965



Fisherbrand

## PIPETTES, TRANSFER

- Low density polyethylene
- Transparent
- Graduated
- Not sterile

Cat. No	Description	Length, mm	Drop volume, $\mu$ L	Drop per mL	Pack qty
13439118	Transfer pipette PE, 1mL, graduated, extended tip	150	33	30	500
13439108	Transfer pipette PE, 3mL, graduated	155	40	25	500

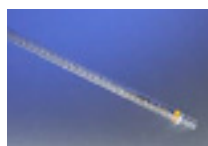


thermo scientific

## GENERAL-PURPOSE TRANSFER PIPETTE

Prevent cross-contamination with Thermo Scientific™ Samco™ general purpose transfer pipettes, which have a built-in bulb that eliminates the need for plugging, packaging and autoclaving. Samco transfer pipettes are made of shatterproof, nontoxic polyethylene. Their low-affinity surface reduces loss of cells and valuable proteins due to binding. They can be frozen in liquid nitrogen, or heat sealed for storage.

Cat. No	Length, cm	Stem diam., mm	Overall capacity, mL	Bulb Draw, mL	Inner pack qty	Pack qty
15337893	13.7	6.1	9.3	4.8	250	2500



## SEROLOGICAL PIPETTES, GLASS

Calibrated 'to deliver' (TD) with blow-out. Corning™ Pyrex™ disposable bulk glass serological pipettes feature long, slender, tapered tips to make pipetting go faster and easier.

- Negative graduations
- Fire-polished tips for burr-free, even flow rates
- Colours conform to I.S.O. standards
- Supplied non-sterile, unplugged, and bulk packed

Cat. No	Capacity, mL	Pack qty
10323473	1	1000
10098512	2	700
10252513	5	960
10058662	10	720



Fisherbrand

## PIPETTOR TIPS, UNIVERSAL FIT, SUREONE™

- Fisherbrand™ SureOne™ pipettor tips are a comprehensive line of universal fit pipettor tips, available in a range of volumes, from 5 $\mu$ L 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
- 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, $\mu$ L	Pack type	Colour	Inner pack qty	Pack qty
<b>10<math>\mu</math>L micropoint tip, graduated at 2<math>\mu</math>L</b>					
10053014	0.1 to 10	Racked sterile	Clear	96	960
<b>200<math>\mu</math>L universal thin wall micropoint tip</b>					
11943436	1 to 200	Racked sterile	Clear	96	960
<b>1250<math>\mu</math>L universal micropoint tip, graduated at 100<math>\mu</math>L, 200<math>\mu</math>L, 500<math>\mu</math>L and 1000<math>\mu</math>L</b>					
10164694	100 to 1250	Racked sterile	Clear	96	960
11937754	1000 to 5000	Bulk non-sterile	Clear	-	250
11957754	1000 to 10000	Bulk non-sterile	Clear	-	100



## DISPENSING TIPS

Manufactured from high-quality virgin plastics for use with all standard repeating pipettors in a wide variety of applications.

- For precise, reliable dispensing of 'difficult' fluids with high viscosity or high vapour pressure
- Compatible with most commonly used pipettor systems
- Range of capacities available

**Fisherbrand**

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



## 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

**Fisherbrand**

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



## VIALS AND CLOSURES

- Standard vials for GC and HPLC
- Universally compatible on almost all autosamplers

**Fisherbrand**

Cat. No	Description	Pack qty
11717587	Vials - 9mm screw : 1.5mL short thread vial, 32 x 11.6mm, clear glass, 1st hydrolytic class, wide opening	100
11787567	UltraClean vial closure, short thread, 9mm, polypropylene, blue, centre hole; silicone white/PTFE red seal, 55° shore A 1.0mm	100



## AUTOSAMPLER 2-IN-1 VIAL AND CLOSURE KITS

Fisherbrand offer practical 2-in-1 vial and cap kits as a convenient way to obtain chromatography vials and closures for all common HPLC/GC and headspace autosampler instruments in the market. These 2-in-1 kits each contain 100 vials and closures in a blue polypropylene box in several configurations to meet your autosampler needs.

**Fisherbrand**

Cat. No	Description	Instrument compatibility
11787497	2-in-1 Vial and cap kit: 1.5mL short thread clear vial, 9mm PP short thread blue cap with hole; white silicone/ red PTFE 1.0mm seal	Agilent
15124649	2-in-1 Vial and cap kit: 1.5mL short thread clear, 9mm PP short thread blue cap with hole; white silicone/red PTFE, 1.0mm seal with slit	Agilent
11860972	2-in-1 Vial and cap kit: 1.5mL short thread clear vial with label, 9mm UltraBond PP short thread blue cap with hole, beige silicone/white PTFE 1.3mm seal with slit	Waters
12950891	2-in-1 Vial and cap kit: 1.5mL short thread clear vial, 9mm UltraBond PP short thread blue cap with hole, beige silicone/ white PTFE 1.3mm seal	Waters
13459748	2-in-1 Vial and cap kit: 1.5mL PP short thread vial with filling lines, 9mm PP short thread blue cap with hole, white silicone/ PTFE blue 1.0mm seal with slit	Dionex
11880892	2-in-1 Vial and cap kit: 1.5mL crimp neck clear vial with label, 11mm clear crimp cap with hole, white silicone/red PTFE, 1.3mm seal	Thermo Scientific
10475792	2-in-1 Vial and cap kit: 1.5mL clear crimp neck vial, 8mm clear screw cap with hole, white silicone/red PTFE 1.3mm seal	Thermo Scientific





Azlon

## MULTI-LINGUAL WASH BOTTLES, LDPE

- With vapour-venting valve to prevent solvent drips
- Multi-lingual wide neck wash bottles : English, French, German, Spanish
- Indelibly printed in multiple languages
- Choice of solvent labels with new Globally Harmonised Symbols, NFPA diamond, risk phrases and safety information
- Colour coded one-piece PP closures with precision jet-tip aperture

Cat. No	Description	Capacity, mL	Closure colour	Pack qty
<b>11373514</b>	Acetone	250	Red	5
<b>11383514</b>	Methanol	250	Green	5
<b>12196220</b>	Isopropanol	250	Blue	5
<b>12116230</b>	I.M.S	250	Yellow	5
<b>12126230</b>	Ethanol	250	Orange	5
<b>12550456</b>	Methanol	500	Green	5
<b>11303524</b>	Isopropanol	500	Blue	5
<b>11393514</b>	I.M.S	500	Yellow	5
<b>11329643</b>	Acetone	500	Red	5

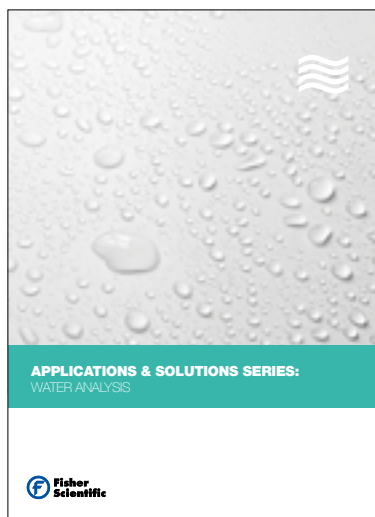


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## 'RIGHT-TO-UNDERSTAND' FEP SAFETY WASH BOTTLES

- Bottles are permanently etched with 100% Globally Harmonized System (GHS) chemical safety information for easy chemical identification at a glance
- No other system markings are used on the bottles, which eliminates confusion
- Bottles are made from high quality Nalgene materials for low extractables and long life
- Dispensing nozzles are carefully moulded to deliver a straight stream for precision dispensing and safety
- Bottles are not vented
- Designed to dispense through the top with a closure and stem moulded in one piece for uniform leakproof service
- Closure colour: natural

Cat. No	Description	Capacity, mL	Pack qty
<b>15581363</b>	Acetone	500	Each
<b>15591363</b>	Toluene	500	Each
<b>15501373</b>	n-Hexane	500	Each
<b>15511373</b>	Methylene Chloride (Dichloromethane)	500	Each
<b>15521373</b>	Xylene	500	Each
<b>15531373</b>	Methyl Ethyl Ketone (2-butanone)	500	Each



## Is water quality important to your process?

Our Water Analysis brochure features a comprehensive range of high quality and reliable products to collect, store and prepare your sample.

Discover how you can validate a large range of parameters during all steps of your processes.

Available on [eu.fishersci.com](http://eu.fishersci.com)



## HYGRADE™ WORKBOOTS

- Waterproof Wellington boot-style
- For industrial use, food companies and agricultural work
- White PVC upper, green PVC anti-slip sole and white nylon lining. CE marked.

Cat. No	Size	Pack qty
12074465	38	1 pair
12084465	39	1 pair
12094465	40	1 pair
12004475	41	1 pair
12014475	42	1 pair
12024475	43	1 pair
12034475	44	1 pair
12044475	45	1 pair



## SHOE\BOOT COVERS TYVEK™

- Made from Tychem™ fabric
- Universal size fitting
- Grey with antislip sole
- Disposable
- Sterile
- Thickness 70µm
- Waterproof



Cat. No	Size	Pack qty
11783524	Universal	25



## DISPOSABLE POLYPROPYLENE BOUFFANT CAPS

- Single-use cap provides basic protection
- Disposable
- 14gsm polypropylene
- Diameter: 53.3cm
- Latex-free
- White

**Fisherbrand™**

Cat. No	Colour	Size,mm	Pack qty
15401942	White	53.3	1,000



## COVERALLS, TYVEK™, CLASSIC XPRT CHF5

Hooded coverall made from Tyvek™ flashspun high-density polyethylene fibres. Ergonomic protective design featuring elasticated wrists, ankles and face, plus glued-in elasticated waist. White.

- Chemical protective clothing, Category III, Type 5-B and 6-B
- EN 14126 (barrier to infective agents), EN 1073-2 (protection against radioactive contamination)
- Anti-static treatment (EN 1149-5) - on both sides
- Stitched external seams
- Very low inward leakage thanks to optimised design
- Tyvek™ auto-lock zipper and zipper flap for increased protection

Cat. No	Size	Pack qty
12971345	S	25
12991345	M	25
12911355	L	25
12931355	XL	25
12951355	XXL	25
12961355	XXXL	25



## COVERALLS, TYCHEM C™, STANDARD CHA5

Hooded coverall with thumb loops and elastication at wrists, ankles, face and waist. Self-adhesive double zipper flap and chin flap. Yellow. Made from a lightweight and durable fabric (<450g per garment), Tychem C garments utilise the strength of Tyvek™ and a polymeric barrier coating to offer good permeation barrier protection against a wide range of inorganic chemicals and biological hazards (even under pressure).

- Chemical protective clothing, Category III, Type 3-B, 4-B, 5-B and 6-B
- EN 14126 (barrier to infective agents), EN 1073-2 (protection against radioactive contamination)
- Anti-static treatment (EN 1149-5) - on inside
- Stitched and over-taped seams with barrier tape for protection and strength
- Self-adhesive double zipper flap closure system for higher protection

Cat. No	Size	Pack qty
12648341	S	25
12658341	M	25
11733093	L	25
11743093	XL	25
11753093	XXL	25
12668341	XXXL	25



**Ansell**

## GLOVES, NITRILE, DISPOSABLE, TOUCH N TUFF™, PPE CATEGORY III

- Touch N Tuff™ gloves comply with FDA food handling requirements (21 CFR 177.2600)
- Made of 100% nitrile. Provides three times the puncture resistance of natural latex and vinyl gloves. No additives to contaminate product or irritate skin
- Combines excellent fingertip sensitivity with exceptional durability. Gives a high level of protection against grease and oil. Lightweight and comfortable to wear. Silicone free
- Rolled cuff, length 240mm, thickness 0.12mm

Cat. No	Size	Pack qty
<b>11706714</b>	6.5 to 7	100
<b>11716584</b>	7.5 to 8	100
<b>11726584</b>	8.5 to 9	100
<b>11786584</b>	9.5 to 10	100



**Ansell**

## GLOVES, RUBBER, CHEMICAL RESISTANT, SUREGRIP™, PPE CATEGORY III

Chemical resistant PPE Category III rubber gloves. Raised pattern palms and fingers give excellent wet grip. Long tear-resistant cuff and flock lined for comfort.

Cat. No	Size	Pack qty
<b>12312209</b>	S	12 pairs
<b>12322209</b>	M	12 pairs
<b>12332209</b>	L	12 pairs
<b>12911115</b>	XL	12 pairs



**Kimberly-Clark**

## GLOVES, KIMTECH SCIENCE™ PURPLE NITRILE™

Excellent choice for higher risk applications in life sciences and non-sterile pharmaceutical manufacturing. Best combination of protection, cleanliness and quality. Best chemical protection in the KIMTECH SCIENCE™ range, tested against over 50 chemicals and 20 cytotoxic drugs. Strength, quality and cleanliness tracked by certificate of analysis. PPE cat III compliant, AQL 0.65, EN 374-1 and -2, ISO 16604, food contact approved. Powder free and disposable.

Cat. No	Size	Pack qty
<b>10737655</b>	XS	100
<b>10248264</b>	S	100
<b>11889610</b>	M	100
<b>11899610</b>	L	100
<b>11809620</b>	XL	90



**Kimberly-Clark**

## GLOVES JACKSON G29 NEOPRENE / NITRILE

The Jackson Safety G29 solvent glove allows workers handling solvents to do their job in a safe and productive manner while providing a level of dexterity similar to thin mil gloves.

- 12mm thick (at finger), 9mm thick (at palm)
- 295mm length
- Neoprene blend construction designed for protection from solvents
- Textured fingertips for wet or dry grip
- Ambidextrous to improve usage efficiency
- Silicone-free
- Powder-free
- Not made with natural rubber latex
- Highest level of dexterity per EN420:2003 standard

Cat. No	Size	Pack qty
<b>15387647</b>	XS\6	50
<b>15317657</b>	S\7	50
<b>15337657</b>	M\8	50
<b>15357657</b>	L\9	50
<b>15367657</b>	XL\10	50



**Ansell**

## GLOVES, NITRILE SOLVEX™ GREEN

Ansell Solvex nitrile gloves are designed to deliver optimal results in wet or dry work environments where chemical resistance is crucial. Fully reusable, with an unequalled abrasion resistance, they provide superb comfort for the wearer.

- Solvent resistant
- Comfortable flock lining
- Protected by fungicidal and bacteriostatic agent
- Suitable for use in chemical processing, food production, degreasing and painting

Cat. No	Size	Pack qty
<b>12630862</b>	6	12 pairs
<b>11706564</b>	7	12 pairs
<b>11796554</b>	8	12 pairs
<b>12405140</b>	9	12 pairs
<b>12405140</b>	10	12 pairs
<b>12201202</b>	11	12 pairs



**GLOVES, NITRILE, CHEMICAL RESISTANT, PREMIUM SOLVEX™, PPE CATEGORY III**

A premium nitrile glove providing new standards of safety for high risk chemical handling. Each glove is individually air-pressure tested. Manufactured from a newly developed nitrile film which offers greater strength and superior chemical resistance, suitable for particularly hazardous chemical areas, e.g. chemical manufacture, transfer of aggressive chemicals and handling chemical mixtures. Other areas for use include oil refining, laboratory testing and the handling of pesticides, insecticides and plant protection chemicals. Sanitised™/ Actifresh™ with dot pattern reverse lozenge grip that actually strengthens the glove. Flock lined with semi-gauntlet length for better forearm protection. Lozenge style. Colour red. Length 380mm, thickness 0.425mm.



Cat. No	Size	Pack qty
11781583	7	12 pairs
12495160	8	12 pairs
11761583	9	12 pairs
12415170	10	12 pairs
12425170	11	12 pairs



**GLOVES, NEOPRENE, CHEMICAL RESISTANT, NEOTOP™, PPE CATEGORY III**

Medium duty chemical protection with outstanding flexibility and ease of handling. With its neoprene formula this glove is much less tiring to the hands than other heavy duty gloves. Neoprene protects against the broadest range of chemicals and is ideal for use in cold conditions, because neoprene maintains its superb elasticity even at low temperatures. Flock lined in pure cotton to be soft, comfortable and absorbent. Sanitized™/ Actifresh™ for anti-bacterial protection. Lozenge style. Colour black. Length 300mm, thickness 0.75mm.



Cat. No	Size	Pack qty
11767593	6.5 to 7	12 pairs
12660822	7.5 to 8	12 pairs
12455170	8.5 to 9	12 pairs
11787583	9.5 to 10	12 pairs
12475170	10.5 to 11	12 pairs



**GLOVES, CHEMICAL RESISTANT LLDPE, BARRIER™, PPE CATEGORY III**

Chemical resistant film gloves with an ergonomic design and an integral, non-woven liner that helps absorb and dissipate perspiration for a cooler, more comfortable fit. Manufactured from five layer film for wide spectrum chemical resistance, they meet a wide range of common and 'difficult' chemical resistances for laboratory use as well as in pharmaceutical and chemical manufacture. Patented seam technology locks out chemicals and keeps the protective film and liner together as a single unit. Worn alone, Barrier™ gloves provide flexibility and dexterity. In applications where the risk of physical damage is greater, the gloves should be worn as liners under heavier nitrile, neoprene, or PVC gloves. Packaged in single pair units within a pack of 12 pairs to ensure cleanliness.



Cat. No	Size	Length, mm	Pack qty
12689781	6	380	12 pairs
12313609	7	380	12 pairs
11517853	8	390	12 pairs
12333609	9	390	12 pairs
12343609	10	400	12 pairs



**GLOVES, LATEX, CHEMICAL RESISTANT, PROFIL™ PLUS, PPE CATEGORY III**

Pure cotton flock lined heavy glove. Sanitized™/ Actifresh™ for anti-bacterial protection and treated inside to reduce allergy risk. Outstanding grip, specially designed for chemical processing in wet conditions, chlorinated finish provides good wet grip. Picot style. Colour yellow. Length 300mm, thickness 0.65mm.



Cat. No	Size	Pack qty
12425120	S	12 pairs
12435120	M	12 pairs
12445120	L	12 pairs
12455120	XL	12 pairs



**HAND PROTECTOR, TEMPERATURE RESISTANT**

A safe and convenient method of handling hot laboratory ware, manufactured from strong tear resistant silicone rubber. One size. Withstands temperatures as high as 260°C and as low as -57°C. Gripping surfaces have multiple concave tipped studs for non-slip grip. CE marked.



Cat. No	Width, mm	Length, mm	Pack qty
10672571	98	190	Each



## GLOVES, THERMAPRENE™

- Top quality neoprene coating protects against a wide range of chemicals
- Protects hands against intermittent contact with hot surfaces up to 180°C and offers lightweight cut resistance
- Removable liner and integrated hanging loop allows gloves to be stored and dried quickly
- Passes ASTM F903 - for penetration by liquid
- Thermaprene gloves comply with FDA food handling requirements (21 CFR 177.2600)

**Ansell**

Cat. No	Size	Length, mm	Pack qty
11741734	8	460	1 pair
11751734	10	460	1 pair
11761734	8	660	1 pair
11771734	10	660	1 pair



## GLOVES, KNITTED, TEMPERATURE RESISTANT, ARATHERMA

Temperature resistant, knitted gloves. High thermal protection gloves in Kevlar™ protect between 250°C and 350°C. Antistatic according to EN 1149. Industries include manufacturing, steel and metals.

- EN 420-2010 - General requirements
- EN 388-2003 - Mechanical risks
- EN 407-2004 - Thermal risks

**Honeywell**

Cat. No	Size	Length, mm	Pack qty
11887040	M	300	1



## GLOVES, TEMPERATURE RESISTANT, FOUNDRY M20

A water-repellent and heat resistant cowhide split leather gauntlet-style glove, Gunn cut, with sewn on thumb, and stitched with Kevlar™ thread. Hand lined with 4mm flame-resistant foam laminated on flame and heat-resistant jersey material. The 180mm grain leather cuff is lined with cotton canvas. Total length 385mm. For welding, smelting and cutting applications

- Industrial markets: automotive and parts, iron and steel, construction, transportation, utilities welding
- CE Category II Intermediary risks
- In accordance with standards EN 420-03 EEC (Basic), EN 388-03 (Mechanical hazards), EN 407-04 (Thermal Hazards) and EN 12477-2002 (Type B Welding hazards)

**Honeywell**

Cat. No	Size	Pack qty
11896900	L\10	1



## GLOVES, CRYOGENIC -190°C, PPE CATEGORY II

- Mid-arm gloves
- For use with materials stored with liquid nitrogen and in other very cold environments
- Superb insulation needs less thickness giving more dexterity
- Synthetic fibre outer for flexibility
- Water resistant

The middle layer is of special polyolefin/polyester micro-fibre, which is almost twice as effective in thermal insulation as a similar thickness of down. This minimises heat transfer without being so thick as to be cumbersome. The inner layer is of cotton for comfort. Avoid contact with alcohol-based products.

**Ansell**

Cat. No	Size	Length, mm	Pack qty
11883801	S	300	1 pair
11883831	M	360	1 pair
11893831	L	380	1 pair



## GLOVES, CRUSADER FLEX™

Non-woven felt insulation and a full-length heat barrier designed for intermittent handling of objects up to 400°F/200°C. Superior heat resistance, heat protective coating that extends the entire length of the glove, both front and back. Hard wearing with excellent grip. Length 330mm

**Ansell**

Cat. No	Size	Pack qty
12455130	9	1 pair
12465130	10	1 pair



## GLOVES, CUT RESISTANT HYFLEX™ 11-518

Provides barehand-like dexterity with a light duty 18-gauge liner. Ansell™ HyFlex™ 11-518 Light Weight Cut-Resistant Gloves meet ANSI Level 2 cut protection standards. Potential applications include final assembly, handling and assembly of small or ultra-fine sharp parts, injection moulding parts assembly, and machining special metal blends.

- First-to-market glove to provide ANSI™ Cut Level 2 in an 18 gauge style
- Dyneema™ Diamond Technology provides high cut-to-dexterity ratio for safety with comfort and tactility
- Soft, sheer fibres breathe to keep hands cool and dry
- Thin polyurethane coating enables high tactility, and high abrasion resistance extends glove life
- Blue, with elasticised knitted wrist

**Ansell**

Cat. No	Size	Pack qty
12608665	6	12 pairs
12618665	7	12 pairs
12628665	8	12 pairs
12638665	9	12 pairs
12648665	10	12 pairs
12658665	11	12 pairs



## EAR PLUGS, E-A-R™SOFT YELLOW

The 3M™ E-A-Rsoft yellow neon roll-down earplugs offer high attenuation and are made from a slow expanding, PU foam material.

- An earplug that gives evenly distributed pressure and a good seal with optimum comfort
- Attenuation rating (SNR) 36dB
- Neon yellow colour
- One size fits majority of wearers

Cat. No	Description	Pack qty
12364749	E-A-R soft yellow neon earplugs SNR 36dB	250



## EAR PLUG DISPENSER

Dispenser for foam ear plugs holds approximately 200 pairs. Translucent green acrylic dispenser. Flip top lid for easy refilling and tilt open bottom lid for dispensing, which remain in place whilst the unit is in use. Can be set on a worktop or wall mounted (screws provided). Dimensions: 203mm x 203mm x 406mm.

Cat. No	Description
11507473	Ear plug dispenser



## DISPOSABLE POLYPROPYLENE LAB COATS

- Latex-free spunbond polypropylene construction lab wear
- Elastic cuffs hold sleeves in place
- Five snaps for a secure closure
- Standard collar
- No pockets
- Fabric weight: 50g/m<sup>2</sup>

Cat. No	Colour	Size	Pack qty
15431922	White	S	25
15441922	White	M	25
15451922	White	L	25
15461922	White	XL	25
15471922	White	2XL	25
15481922	White	3XL	25



## RESPIRATORS, 9300+ SERIES AURA™

Covers a range of applications requiring FFP1, FFP2 and FFP3 protection.

- Unique three panel design for greater comfort and easy communication
- Soft cover web on inner panel ensures greater comfort
- Centrally positioned cool flow valve reduces heat build up and makes breathing easier and cooler
- Evenly tensioned headbands to relieve strap pressure
- Lightweight and foldable
- Individually packed to avoid contamination during storage

Cat. No	Description	Pack qty
11717574	9310+ premium dust respirator, provides protection against fine dusts. Individually packed, EN 149:2001 FFP1. Particulates Assigned Protection Factor 4 (NPF 4)	20
12672545	9312+ premium valved dust respirator, provides protection against fine dusts. Individually packed, EN 149:2001 FFP1. Particulates Assigned Protection Factor: 4 (NPF 4)	10
10583051	9320 premium dust/mist respirator, provides protection against fine dusts and water based mists. Individually packed, EN 149:2001 FFP2. Particulates Assigned Protection Factor: 10 (NPF 12)	20
10116544	9322+ premium valved dust/mist respirator, provides protection against fine dusts and water based mists. Individually packed, EN 149:2001 FFP2. Particulates Assigned Protection Factor: 10 (NPF 12)	10
10718615	9332+ premium valved dust/mist/metal fumes respirator, provides protection against fine dusts, water based mists and metal fumes. Individually packed, EN 149:2001 FFP3 Particulates Assigned Protection Factor: 20 (NPF 50)	10



## RESPIRATORS, 4000 SERIES

The 4000 series respirators by 3M™ are a range of ready to use, maintenance free half masks with built-in filters designed for effective and comfortable protection against a combination of many gases, vapours and particulate hazards found throughout the industry.

- Low profile design for better peripheral vision
- Exhalation valve centrally positioned for effective removal of heat and moisture
- Respirators can be used until damaged, particulate filters clog, gas filters become saturated or after one month
- Soft, non-allergenic material with textured face seal
- Adjustable head cradle and easy to fasten neck straps
- Lightweight, well balanced design

Cat. No	Description	Pack qty
12302409	4277 Organic, inorganic, acid gas, particulate respirator FFABE1P3 R D	Each
12312409	4279 Organic vapours, inorganic, acid gases and ammonia, particulate respirator FFABEK1P3 R D	Each
12372399	4251 Organic vapour and particulate respirator FFA1P2 R D	Each
12392399	4255 Organic vapour and particulate respirator FFA1P3 R D	Each





## RESPIRATORS, 8000 SERIES (CLASSIC)

The 3M™ Respirators 8000 Series provide lightweight, comfortable and effective respiratory protection against dust and mist. The convex shape, twin strap design, nose foam and nose clip ensure comfortable wear over a range of face sizes. These collapse-resistant shell and proprietary 3M™ respirators offer durable, comfortable protection particularly in hot and humid conditions.

Cat. No	Size	Pack qty
<b>11703363</b>	3M™ 8710 cup-shaped unvalved dust/mist respirator - small pack FFP1	20
<b>11713363</b>	3M™ 8810 cup-shaped unvalved dust/mist respirator - small pack FFP2	20



## VERSAFLO™ TR-300 POWERED RESPIRATOR SYSTEM

The 3M™ Versaflo™ TR-300 turbo unit is equipped with automatic flow control, low battery alarm, and low flow alarm.

- Lightweight, compact and well-balanced designs
- Breathable air is provided to the wearer reducing the additional breathing effort required
- QRS (Quick Release Swivel) breathing tubes allow fast and easy connection
- Easily removable parts allow simple cleaning, maintenance and replacement
- Quiet system with reduced motor noise and air whistling
- Soft face seals and inner collars
- Multiple size adjustment options allow for a comfortable fit
- Provides excellent peripheral and downward vision
- Weight of the unit is only 1095g including the particulate filter, high capacity battery and standard belt
- An audible and LED alarm both signal to the user when there is either low battery charge or low airflow
- The economy battery runs continuously for at least 5 to 6 hours, while the high capacity battery runs for at least 10 to 12 hours

Cat. No	Description
<b>Versaflo™ powered respirator, accessories and spare parts</b>	
<b>11783896</b>	Respirator, powered air turbo unit, c/w filter cover and air flow indicator
<b>11703916</b>	Easy-Clean belt
<b>11743916</b>	Backpack
<b>11793896</b>	Economy battery pack
<b>11703906</b>	High capacity battery pack
<b>11765314</b>	Breathing tube, short length
<b>10566490</b>	Breathing tube, long length
<b>11854564</b>	Breathing tube, adjustable length
<b>11713906</b>	Battery charger
<b>Versaflo™ filters</b>	
<b>11743906</b>	Pre-Filter x 100
<b>11773906</b>	P+ Nuisance Level acid gas and hydrogen fluoride filter x 5
<b>Versaflo™ S-Series headtops</b>	
<b>11785314</b>	Headcover Versaflo™ small/medium
<b>11775314</b>	Headcover Versaflo™ medium/large
<b>11791133</b>	Headcover high durability with integrated head suspension S/M
<b>11781133</b>	Headcover high durability with integrated head suspension M/L
<b>10357839</b>	Hood with integrated head suspension and face seal S/M hood
<b>11810114</b>	Hood with integrated head suspension and face seal M/L
<b>11771153</b>	Hood high durability with integrated head suspension and face seal S/M



## DISPOSABLE POLYETHYLENE SLEEVE COVERS

- Disposable general purpose sleeves
- Polyethylene
- Length: 45.7cm
- Latex-free
- Thickness: 0.15mm
- Elastic cuffs

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Cat. No	Colour	Length, cm	Size	Pack qty
<b>15481952</b>	Blue	45.7	Universal	200

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**3M**

### SECUREFIT™ SF400 SERIES SAFETY SPECTACLES

- Optical class 1 lens suitable for prolonged use
- Design provides excellent coverage and field of vision
- Protection against UV radiation
- Lightweight design (19g)
- Adjustable nose pads for secure and personalised fit
- Soft-touch dual moulded temples for increased comfort and grip

Cat. No	Description
<b>15371994</b>	3M SecureFit 400 Protective Eyewear, SF401AF-EU, Clear PC
<b>15391994</b>	3M SecureFit 400 Protective Eyewear, SF402AF-EU, Grey PC
<b>15302004</b>	3M SecureFit 400 Protective Eyewear, SF403AF-EU, Amber PC
<b>15322004</b>	3M SecureFit 400 Protective Eyewear, SF408AS-EU, Mirror blue PC
<b>15312004</b>	3M SecureFit 400 Protective Eyewear, SF410AS-EU, Mirror I/O PC



**3M**

### SAFETY GOGGLES, 2890

With a modern slim design, 3M™ 2890 safety goggles combine performance, comfort and style while providing the wearer with an excellent field of vision.

- Optical clarity class 1 to allow prolonged comfortable wear
- Indirect ventilation design for improved air circulation comfort and reduced fogging in hot or humid conditions
- Polycarbonate lens
- Increased durability with an extremely scratch resistant coating
- Special anti-fog coating reduces fogging and ensures clearer vision
- UV protection gives reliable protection against specified levels of hazardous UV radiation

Cat. No	Description
<b>12652605</b>	Goggles 2890 anti-fog UV protection



**bolle**  
SAFETY

### 'VISITEUR' OVER-SPECTACLES

These polycarbonate 'Visiteur' over-spectacles are designed for wearers of prescription glasses and occasional wearers (site visitors)

- Polycarbonate
- Clear lenses
- Browguard with hinged sidearms
- Can be worn over spectacles

Cat. No	Description
<b>10565234</b>	Bolle Protection™ Visiteur GSK-VISPI spectacles



**bolle**  
SAFETY

### 'ATOM' SAFETY GOGGLES

- Lightweight
- Protection against liquid droplets and splashes
- Sealed clear polycarbonate lens
- Anti-scratch and anti-fog
- Adjustable strap
- EN166: 3, 4, 5, 5 BT
- Blue

Cat. No	Description
<b>12679090</b>	Safety goggles, Bolle Protection™ ATOM Model Polycarbonate



**bolle**  
SAFETY

### SAFETY SPECTACLES, PLATINUM COATED

Polycarbonate construction with permanent platinum coating gives high resistance to scratching and aggressive chemicals and delays the onset of fogging for two minutes.

**Model 'Iris'**

- One model, one size
- Adjustable nose bridge by height, width and depth
- Pivoting, non-slip ergonomic temples
- Weighs only 27g
- Free cord

**Model 'Rush+'**

- Bi-material ultra flexible temples
- Adjustable non-slip nose bridge
- Weighs only 26g
- Foam and strap kit available

Cat. No	Description
<b>13416979</b>	Safety spectacle Iris clear platinum lens
<b>15206705</b>	Safety spectacle Rush+ smoke platinum lens
<b>15216705</b>	Safety spectacle Rush+ clear platinum lens



**bolle**  
SAFETY

### MASTERALL DUAL LENS SAFETY GOGGLES

MASTERALL goggles offer total reinforced protection thanks to the double lens and its anti-fog technology. Ideal for offshore and the petrochemical environment.

- Protection against liquid splash, dust, UV and medium energy impacts
- Ultra-compact sealed PVC frame with comfort-foam fitting
- Double lenses with platinum anti-scratch anti-fog coating
- 'Equalizer' technology to further protect against fogging
- Neoprene headstrap for better resistance to oil and water

Cat. No	Description
<b>15550984</b>	Masterall dual lens safety goggle Bolle

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	Other Analysis	For Analysis Extra Pure and Specified Laboratory Reagent (SLR) For Electronic Use
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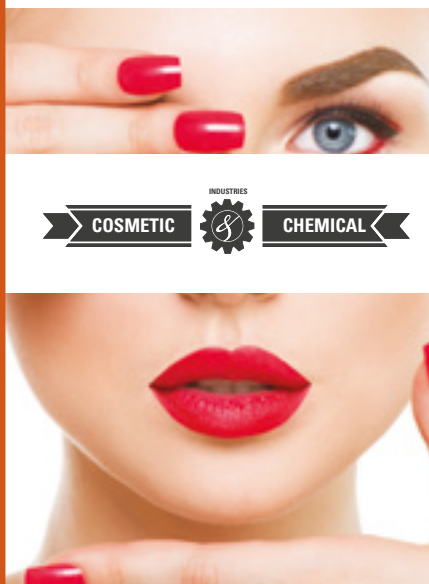
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