



## LABORATORY EQUIPMENT



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Registered in England No 145824  
Authorised Share Capital  
£1,000,000

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## A HISTORY OF GROWTH & DEVELOPMENT



Head office and glassworks, Woking



Blow-moulding and printworks, Woking

S Murray was founded in 1915, initially as a distributor of medical glassware.

Woking, and the manufacture of surgical instruments in Sheffield.

The company rapidly developed to become a leading British manufacturer of laboratory consumables and has since diversified into blow-moulding and silk-screen printing at

Represented by more than 300 wholesalers and distributors worldwide, the SAMCO trademark is known internationally for quality, service and competitive pricing.



Sheffield factory

### **Notable Milestones**

Owner managed for four generations, S Murray & Co has a history of growth and development with a number of notable milestones:-

### **Plastic Containers**

Beginning with the distributorship of Fibrenyle products in 1963, the company commenced in-house manufacture in 1984, then acquired blow-moulding and silk-screen specialists Miller Mouldings Ltd in 1989.

Manufacture was relocated to Woking in 2001.

### **Laboratory Equipment**

Manufacture of test tubes was relocated from London to Woking in 1941. The company commenced distribution of Trident Vials in 1964 and acquired laboratory scaffolding manufacturer Climplex Ltd in 1998.

### **Surgical Instruments**

The acquisition of Sheffield-based surgical and dissecting instrument manufacturers George Gill & Sons took place in 1948, Nowlin & Son in 1990 and Heeley Surgical in 1999. Manufacture relocated to a new purpose built factory, still in Sheffield, in 2003.



## COMMITMENT TO QUALITY

S Murray is totally committed to today's quality requirements.

One of the first healthcare manufacturers to obtain BS5750 certification in 1991, upgraded to BS EN ISO 9002:1994 in 1995, then to BS EN ISO 9001:2000 in 2003.

Certification to this revised standard, with its emphasis on customer satisfaction, assures continued professional service and properly controlled and documented quality of product.

FDA registration was achieved in 2003.

S Murray is also committed to the care of the environment, with on-going development of a best practice environmental management system, in accordance with BS EN ISO 14001:1996.

Health and Safety procedures are embedded at every level of S Murray's activities - the company was a founder signatory to the G.L.A.S.S. Charter (**Goal:Less Accidents – Safe Sites**) sponsored by British Glass and the H.S.E. This culture goes beyond protecting staff and visitors to the company sites, providing assurance that SAMCO products are safe when properly used.

S Murray is an equal opportunities company, with a well established training and development program in accordance with the principles of Investors in People.

The majority of employees are working towards a National Vocational Qualification, successful candidates have already received awards ranging from Level 2 to Level 5.



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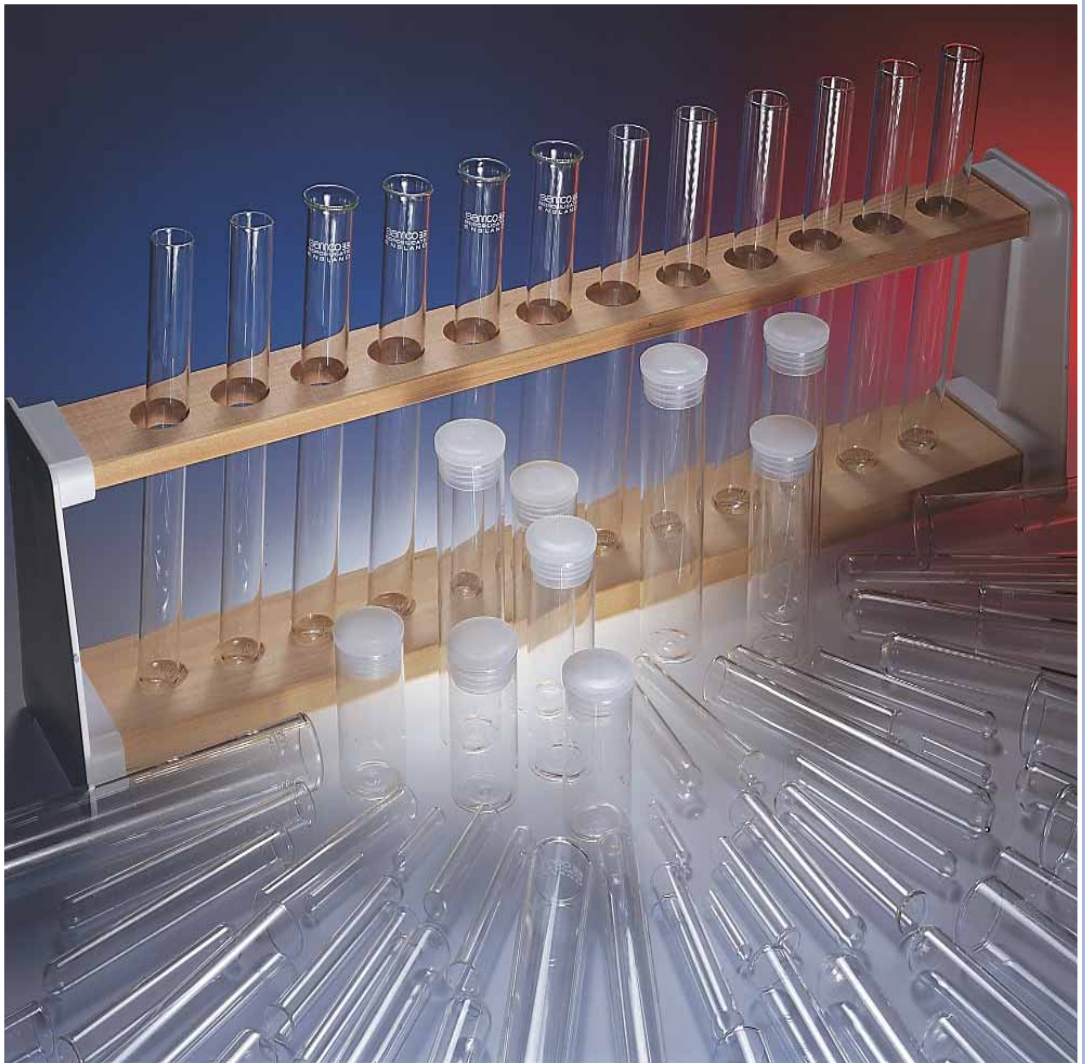
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SAMCO Test Tubes are manufactured from soda, neutral or borosilicate glass to the dimensions, tolerances and quality requirements of ISO 4142:2002, to meet all applications for re-usable glass tubes.

Other products manufactured at S Murray's Woking Factory included in this section are flat bottom specimen tubes, Dreyer and Durham fermentation tubes, centrifuge tubes, capillary tubes and freeze-drying ampoules.

## SODA GLASS



### TEST TUBES SODA GLASS

SAMCO soda glass test tubes are suitable for general mixing and simple laboratory work, and will withstand moderate warming (eg in a water bath). They should not be placed directly into naked flames.

Tolerances are as specified in ISO 4142:2002 (Table 4).

#### Test Tubes

Light wall with rim

Code	Size mm	Wall thickness mm	Quantity per pack
G001/71	50 x 6.5*	0.45	250
G001/72	50 x 10*	0.6	250
G001/73	75 x 10	0.6	100
G001/75	75 x 12	0.6	100
G001/76	100 x 12	0.6	100
G001/79	100 x 16	0.6	100
G001/80	125 x 16	0.6	100
G001/81	150 x 16	0.6	100
G001/82	125 x 18*	0.6	100
G001/83	150 x 18	0.6	100
G001/84	150 x 24	0.8	50

#### Durham Tubes\*

Code	Size mm	Wall thickness mm	Quantity per pack
G010/21	25 x 6.5	0.65	250
G010/22	30 x 6.5	0.65	250
G010/23	35 x 8	0.65	250
G010/24	50 x 7.5	0.65	250

\*Supplementary sizes to ISO 4142

#### Physical Properties

Coefficient of expansion (20-300°C)	$91 \times 10^{-7}$	SiO <sub>2</sub>	69
		Al <sub>2</sub> O <sub>3</sub>	4
Density	2.5	B <sub>2</sub> O <sub>3</sub>	1
Softening point	720°C	CaO	5
Annealing point	530°C	BaO	2
Working point	1040°C	Na <sub>2</sub> O	13
		MgO	3
		K <sub>2</sub> O	3

#### Composition

#### Test Tubes

Medium wall rimless bacteriological quality

Code	Size mm	Wall thickness mm	Quantity per pack
G002/71	50 x 6.5*	0.65	250
G002/72	50 x 10*	1.0	250
G002/73	75 x 10	1.0	100
G002/74	90 x 10*	1.0	100
G002/75	50 x 12*	1.0	100
G002/76	75 x 12	1.0	100
G002/77	100 x 12	1.0	100
G002/86	75 x 16*	1.0	100
G002/80	100 x 16	1.0	100
G002/81	125 x 16	1.0	100
G002/82	150 x 16	1.0	100
G002/83	125 x 18*	1.0	100
G002/84	150 x 18	1.0	100
G002/85	150 x 24	1.2	50





## TEST TUBES SAMCO '50'

SAMCO neutral glass test tubes will withstand moderate temperature change, they should not be taken from cold and placed directly into the hottest part of the flame without pre-heating.

They have good chemical resistance and are suitable for use with samples which are susceptible to pH change.

Tolerances are as specified in ISO 4142:2002 (Table 3).

### Durham Tubes\*

Code	Size mm	Wall thickness mm	Quantity per pack
G011/21	25 x 6.5	0.65	250
G011/22	30 x 6.5	0.65	250
G011/23	35 x 7.5	0.65	250
G011/24	50 x 7.5	0.65	250

### Test Tubes\*

Light wall with rim

Code	Size mm	Wall thickness mm	Quantity per pack
G020/31	75 x 10	0.8	100
G020/32	75 x 12	0.8	100
G020/33	100 x 12	0.8	100
G020/34	100 x 16	0.8	100
G020/35	125 x 16	0.8	100
G020/36	150 x 16	0.8	100
G020/37	150 x 18	0.8	100
G020/38	150 x 24	0.8	50

### Test Tubes\*

Light wall rimless

Code	Size mm	Wall Thickness mm	Quantity per pack
G021/31	75 x 10	0.8	100
G021/32	75 x 12	0.8	100
G021/33	100 x 12	0.8	100
G021/34	100 x 16	0.8	100
G021/35	125 x 16	0.8	100
G021/36	150 x 16	0.8	100
G021/37	150 x 18	0.8	100
G021/38	150 x 24	0.8	50

\*Supplementary sizes to ISO 4142

### Physical Properties

### Composition

Coefficient of expansion (0-300°C)	54 x 10 <sup>-7</sup>	SiO <sub>2</sub>	71
		Al <sub>2</sub> O <sub>3</sub>	7
Density	2.37	B <sub>2</sub> O <sub>3</sub>	11
Softening point	770°C	CaO	1
Annealing point	560°C	BaO	2
Working point	1160°C	Na <sub>2</sub> O	6
		K <sub>2</sub> O	1

### Test Tubes

Medium wall with rim

Code	Size mm	Wall thickness mm	Quantity per pack
G022/31	75 x 10	1.0	100
G022/32	75 x 12	1.0	100
G022/33	100 x 12	1.0	100
G022/34	100 x 16	1.2	100
G022/35	125 x 16	1.2	100
G022/36	150 x 16	1.2	100
G022/38	150 x 18	1.2	100
G022/40	150 x 24	1.2	50

### Test Tubes

Medium wall rimless

Code	Size mm	Wall thickness mm	Quantity per pack
G023/31	75 x 10	1.0	100
G023/32	75 x 12	1.0	100
G023/33	100 x 12	1.0	100
G023/34	100 x 16	1.2	100
G023/35	125 x 16	1.2	100
G023/36	150 x 16	1.2	100
G023/38	150 x 18	1.2	100
G023/40	150 x 24	1.2	50

## BOROSILICATE GLASS



### TEST TUBES SAMCO '33'

SAMCO borosilicate test tubes are suitable for all usual laboratory applications. They will withstand temperature change up to and including boiling of samples. They are also highly chemically resistant.

Tolerances are as specified in ISO 4142:2002 (Table 2).

#### Test Tubes

Medium wall with rim

Code	Size mm	Wall thickness mm	Quantity per pack
G030/01	75 x 10	1.0	100
G030/02	75 x 12	1.0	100
G030/03	100 x 12	1.0	100
G030/04	100 x 16	1.2	100
G030/05	125 x 16	1.2	100
G030/06	150 x 16	1.2	100
G030/08	150 x 18	1.2	100
G030/09	180 x 18	1.2	50
G030/10	150 x 24	1.2	50

#### Test Tubes

Medium wall rimless

Code	Size mm	Wall thickness mm	Quantity per pack
G031/01	75 x 10	1.0	100
G031/02	75 x 12	1.0	100
G031/03	100 x 12	1.0	100
G031/04	100 x 16	1.2	100
G031/05	125 x 16	1.2	100
G031/06	150 x 16	1.2	100
G031/08	150 x 18	1.2	100
G031/09	180 x 18	1.2	50
G031/10	150 x 24	1.2	50

#### Physical Properties

Physical Properties		Composition	
Coefficient of expansion (20-300°C)	$33 \times 10^{-7}$	SiO <sub>2</sub>	81
		Al <sub>2</sub> O <sub>3</sub>	2
Density	2.23	B <sub>2</sub> O <sub>3</sub>	13
Softening point	825°C	Na <sub>2</sub> O	} 4
Annealing point	560°C	K <sub>2</sub> O	
Working point	1260°C		

#### Test Tubes

Heavy wall with rim

Code	Size mm	Wall thickness mm	Quantity per pack
G032/01	75 x 10	1.5	100
G032/02	75 x 12	1.5	100
G032/03	100 x 12	1.5	100
G032/05	125 x 16	1.8	100
G032/06	150 x 16	1.8	100
G032/08	150 x 18	1.8	100
G032/10	150 x 24	1.8	50

#### Test Tubes

Heavy wall rimless

Code	Size mm	Wall thickness mm	Quantity per pack
G033/01	75 x 10	1.5	100
G033/02	75 x 12	1.5	100
G033/03	100 x 12	1.5	100
G033/05	125 x 16	1.8	100
G033/06	150 x 16	1.8	100
G033/08	150 x 18	1.8	100
G033/10	150 x 24	1.8	50

## SPECIMEN TUBES SODA GLASS

### Specimen Tubes

Flat bottom without closure

Code	Size mm	Wall thickness mm	Quantity per pack
G040/43	22 x 10	0.6	250

### Specimen Tubes

Flat bottom supplied with polythene stoppers

Code	Size mm	Wall thickness mm	Quantity per pack
G050/17	38 x 10	0.6	250
G050/18	50 x 10	0.6	250
G050/19	38 x 12	0.85	100
G050/20	50 x 12	0.85	100
G050/22	75 x 12	0.85	100
G050/23	100 x 12	0.85	100
G050/24	50 x 16	0.85	100
G050/25	75 x 16	0.85	100
G050/26	50 x 19	0.85	100
G050/27	75 x 19	0.85	100
G050/28	50 x 25	0.85	100
G050/29	75 x 25	0.85	100
G050/30	100 x 25	0.85	100
G050/31	150 x 25	0.85	100

### Spare Polythene Stoppers

Code	Size mm	Wall thickness mm	Quantity per pack
G051/00	10		1000
G051/01	12		1000
G051/02	16		1000
G051/03	19		1000
G051/04	25		1000



## AGGLUTINATION TUBES

### Dreyers Agglutination Tubes

Soda glass with funnel top

Code	Size mm	Wall thickness mm	Quantity per pack
G114/21	60 x 7	0.7	100

### Dreyers Agglutination Tubes

Neutral resistance glass with funnel top

Code	Size mm	Wall thickness mm	Quantity per pack
G115/21	60 x 7	0.7	100



## CAPILLARY TUBES

### Capillary Tubes

Soda glass

For melting point determinations.

Outside diameter 1.8/2.0mm, wall thickness 0.28/0.32mm.

Packed in tubular cartons of 100

Code	Length mm
G119/01	75
G119/02	100
G119/31	100 Sealed one end
G119/32	100 Sealed both ends



## CENTRIFUGE TUBES

### Centrifuge Tube

Soda glass

- Capacity 15ml
- Max. RCF x g: 1300

Code	Size mm	Wall thickness mm	Quantity per pack	Type
G131/01	112 x 17	1.0	100	Conical with rim
G131/71	112 x 17	1.0	100	Conical rimless
G132/01	112 x 17	1.0	100	Conical, graduated with rim
G138/01	110 x 17	1.0	100	Cylindrical with rim



## FREEZE DRYING AMPOULES

### Freeze Drying Ampoules

Neutral glass

Code	Capacity ml	Size mm	Quantity per pack
G225/01	0.5	100 x 7	625
G225/02	2.5	154 x 15	250







Trident vials are made from neutral glass under the strict conditions required by the pharmaceutical industry. They are available from stock in capacities from 1.75 to 28.25ml, with screw caps, clip-on closures or polythene plugs. Screw neck Trident vials are manufactured with buttress thread, for optimum closure.

Other products manufactured under the Trident brand are scintillation and tubular glass universal and bijou vials. Also included in this section are moulded glass universal and McCartney bottles.

## TRIDENT VIALS



### Screw Neck Vials

Neutral glass, tall form, without closure. Polypropylene caps must be ordered separately

Code	Nominal capacity		Height	Diameter	Neck bore	Quantity	Trident	Cap
	dram	ml	mm	mm	mm	per pack	code	reference
T101/V1	0.5	1.75	36	11.0	5.5	882	09/001	T001/C1
T101/V2	1.0	3.50	46	12.5	5.5	666	09/002	T001/C1
T101/V3	2.0	7.0	58	17.0	9.0	399	09/009	T001/C3
T101/V4	3.0	10.5	67	17.0	9.0	399	09/008	T001/C3
T101/V5	4.0	14.0	72	20.0	13.0	264	09/007	T001/C5
T101/V6	6.0	21.25	86	21.0	13.0	231	09/006	T001/C5
T101/V7	8.0	28.25	96	23.0	15.5	190	09/005	T001/C7

### Screw Neck Vials

Neutral glass, squat form, without closure. Polypropylene caps must be ordered separately

Code	Nominal capacity		Height	Diameter	Neck bore	Quantity	Trident	Cap
	dram	ml	mm	mm	mm	per pack	code	reference
T102/V1	2.0	7.0	42	20.0	13.0	264	09/003	T001/C5
T102/V2	4.0	14.0	58	23.0	15.5	190	09/004	T001/C7
T102/V3	8.0	28.25	72	27.5	21.0	140	09/010	T002/C3

### Screw Caps

Black polypropylene with foil-faced wads

Code	Type
T001/C1	To fit T101/V1 & T101/V2
T001/C3	To fit T101/V3 & T101/V4
T001/C5	To fit T101/V5, T101/V6 & T102/V1
T001/C7	To fit T101/V7, & T102/V2
T002/C3	To fit T102/V3



**Rolled Rim Vials**

Neutral glass, without closure

These vials will accept either a polythene push-in plug or a clip-on closure which must be ordered separately

Code	Nominal capacity		Height	Diameter	Neck bore	Quantity	Trident
	dram	ml	mm	mm	mm	per pack	code
<b>T103/V1</b>	2.0	7.0	34	23.0	17.15	190	07/014
<b>T103/V2</b>	3.0	10.5	46	23.0	17.15	190	07/013
<b>T103/V3</b>	4.0	14.0	48	25.5	17.15	162	07/010
<b>T103/V4</b>	6.0	21.25	66	25.5	17.15	162	07/011
<b>T103/V5</b>	8.0	28.25	72	27.5	17.15	140	07/012

**Caps for Rolled Rim Vials**

Code	Type
<b>T003/C1</b>	Clip-on closure, polythene
<b>T004/C1</b>	Push-in plug, polythene

**Wide Mouth Vials**

Neutral glass, tall form, without closure

Polythene plugs must be ordered separately

Code	Nominal capacity		Height	Diameter	Neck bore	Quantity	Trident	Cap
	dram	ml	mm	mm	mm	per pack	code	reference
<b>T105/V1</b>	0.5	1.75	36	11.0	8.25	882	08/016	T005/C1
<b>T105/V2</b>	1.0	3.5	46	12.5	8.25	666	08/017	T005/C1
<b>T105/V3</b>	2.0	7.0	58	17.0	10.25	399	08/018	T005/C3

**Caps for Wide Mouth Vials**

Code	Type
<b>T005/C1</b>	Push-in plug, polythene to fit T105/V1 & V2
<b>T005/C3</b>	Push-in plug, polythene to fit T105/V3

## SCINTILLATION VIALS

### Scintillation Vials

Low potassium glass, complete with fitted cap, screw neck

Code	Height mm	Diameter mm	Quantity per pack
T006/01	51	27	500
T006/02	Spare caps 22mm R3 for T006/01, white with foil faced wads		



## PATHOLOGICAL VIALS

### Tubular Vials

Soda glass, complete with fitted white wadless polypropylene cap

Code	Type	Capacity ml	Height mm	Diameter mm	Quantity per pack
T008/01	Bijou	7	43.0	20.0	245
T008/04	Universal	28	82.5	27.5	125
T008/C1	Spare cap 18mm R3 for T008/01				
T008/C4	Spare cap 24mm R3 for T008/04				



### Moulded Bottles

White flint glass, sulphated for autoclaving, complete with fitted aluminium rubber lined cap

Code	Type	Capacity ml	Height mm	Diameter mm	Quantity per pack
G751/01	Universal wide mouth	28	82.5	28.6	144
G752/01	Bijou	7	48.5	21.9	288
G752/02	Media	14	64.7	27.6	288
G752/03	McCartney narrow neck	28	89.4	28.8	144
G807/03	Spare aluminium caps 20mm R3 for G752/01 & G752/02				
G807/04	Spare aluminium caps 22mm R3 for G752/03				
G807/06	Spare aluminium caps 28mm R3 for G751/01				







SAMCO Plasticware draws on over thirty years experience with both injection and blow-moulding techniques to ensure consistent, reliable, high quality products, including the internationally successful SAMCO aspirators, with leak-proof tap assemblies.

Other products manufactured at S Murray's Woking Factory included in this section are narrow neck bottles and wide mouth jars, together with wash bottles and trigger sprays.

## LARGE CONTAINERS

### Octagonal Containers

High density polythene, natural

- Robust design, graduated in litres and gallons.
- Ideal for storage and transportation of liquids.
- Supplied with handle and leakproof polythene caps.

Code	Capacity litres	Height mm	Width mm	Quantity per pack
P022/01	5	332	170	13
P022/02	10	378	205	9

P022/73 Spare red cap for 5 & 10L containers



### Jerricans, Lightweight

Polythene, natural

- With integrally moulded handle.
- Caps supplied unfitted.
- Must be ordered in standard pack quantities.

Code	Capacity litres	Height mm	Width mm	Depth mm	Cap fitting	Quantity per pack
P024/01	1.0	165	125	70	38mm	350
P024/02	2.5	205	150	110	38mm	210
P024/03	5.0	282	189	133	38mm	84
P024/04	10.0	314	231	197	59mm	100

P507/71 Spare white wadded 38mm cap for 1L, 2.5L & 5L jerricans

P507/72 Spare tamper evident 59mm cap for 10L jerricans



## ASPIRATORS

### Aspirators

High density polythene

- Robust design, graduated in litres.
- Integrally moulded spout threaded to accept replaceable polypropylene tap.
- Supplied with handle and leakproof polythene caps.
- Tap assembly increases width by 35mm.

Code	Capacity litres	Height mm	Width mm	Quantity per pack
P023/01	5	332	170	13
P023/02	10	378	205	9

P023/73 Spare black cap for 5 & 10L aspirators

P023/04 Spare screw on tap



### Aspirator/Jerrican

High density polythene

- Integrally moulded handle
- Supplied with screw-in bung to allow use with or without screw-in tap
- Fitted with polythene leak-proof cap

Code	Capacity litres	Height mm	Width mm	Depth mm	Type
P025/01	25	460	330	220	without tap (jerrican)
P025/03	25	460	330	220	with tap (aspirator)

P025/02 Spare tap

P025/72 Spare polythene cap

P025/73 Spare bung



## NARROW NECK BOTTLES

### Bottles

Low density polythene

- Natural, translucent
- Suitable for use with caps, nozzles and dispensers

Code	Capacity ml	Height mm	Diameter mm	Quantity per pack	Cap fitting
P002/02	30	68	31	1200	18mm R4
P001/01	60	86	38	650	22mm R6
P001/02	125	102	48	350	22mm R6
P001/03	175	117	52	225	22mm R6
P001/04	250	130	59	160	22mm R6

### Bottles

High density polythene

- Natural, robust

Code	Capacity ml	Height mm	Diameter mm	Quantity per pack	Cap fitting
P002/22	30	68	31	1250	18mm R4
P001/21	60	86	38	700	22mm R6
P001/22	125	102	48	370	22mm R6
P001/23	175	117	52	260	22mm R6
P001/24	250	130	59	170	22mm R6
P013/28	500	130	67	104	28mm R6
P013/29	1000	248	83	70	28mm R6

### Bottles

Polypropylene

- Translucent, heavy duty

Code	Capacity ml	Height mm	Diameter mm	Quantity per pack	Cap fitting
P001/71	60	86	38	650	22mm R6
P001/72	125	102	48	320	22mm R6
P001/74	250	130	59	160	22mm R6

### Caps

Polypropylene, black, ribbed with EPE wads

Code	Cap fitting
P517/24	18mm R4
P517/25	22mm R6
P517/26	28mm R6

### Nozzles

Low density, polythene blind with attached cap

Code	Cap fitting
P574/03	18mm R4
P571/05	22mm R6
P574/09	28mm R6



### Dispensing Closures

Low density, polythene, white with flip-up spout, aperture 2mm

Code	Cap fitting
P516/03	18mm R4
P516/05	22mm R6
P516/19	28mm R6



# PLASTICWARE

## NARROW NECK BOTTLES



## WIDE MOUTH JARS



### Tall Jars

High density polythene

- Natural

Code	Capacity ml	Height mm	Diameter mm	Quantity per pack	Cap fitting
P202/21	30	45	36	1200	33mm R3
P202/22	60	80	36	700	33mm R3
P202/23	130	93	50	350	38mm R3
P202/24	260	114	61	237	58mm R3
P202/25	320	127	65	168	58mm R3
P202/26	525	140	76	100	58mm R3
P202/27	1000	195	91	49	70mm R3

### Tall Jars

Polypropylene

- Natural, translucent, heavy duty

Code	Capacity ml	Height mm	Diameter mm	Quantity per pack	Cap fitting
P202/71	30	45	36	1200	33mm R3
P202/72	60	80	36	700	33mm R3
P202/73	130	93	50	350	38mm R3
P202/74	260	114	61	237	58mm R3
P202/75	320	127	65	168	58mm R3
P202/76	525	140	76	100	58mm R3
P202/77	1000	195	91	49	70mm R3

# PLASTICWARE

## WIDE MOUTH JARS



### Squat Jars

High density polythene

- Natural

Code	Capacity ml	Height mm	Diameter mm	Quantity per pack	Cap fitting
P201/22	150	68	60	330	58mm R3
P201/24	285	82	78	168	70mm R3
P201/25	685	86	117	80	100mm R3
P201/26	1285	152	117	45	100mm R3

### Caps for Jars

Polypropylene, black

Code	Cap fitting	Type
P515/11	33mm R3	Smooth, wadded
P515/12	38mm R3	Smooth, wadded
P515/27	58mm R3	Smooth, wadded
P515/28	70mm R3	Smooth, wadded
P515/39	100mm R3	Ribbed, wadless



## TRIGGER SPRAY

### Pistol Grip Bottle

High density polythene

- Designed to allow comfortable grip and minimise fatigue

Code	Capacity ml	Height mm	Overall width mm	Depth mm
P014/22	500	206	90	54

### Trigger Spray

Adjustable from fine spray to single jet

- Delivery 1.4ml per stroke

Code	Cap fitting
P513/14	28mm R6



## WASH BOTTLES

### Wash Bottle

Oval, polythene, medium density

Code	Capacity ml
L780/01	250
L780/02	500

### Wash Bottle

Round, polythene, low density

Code	Capacity ml
L785/01	125
L785/02	250

### Wash Bottle

Round, polythene, high density

Code	Capacity ml
L785/03	500
L785/04	1000





S Murray enjoys a world-wide reputation for the supply of high quality dissecting instruments at competitive prices, fully guaranteed in normal use, and subject to the same stringent quality procedures as the company's surgical instrument production.

Stock items include scissors, forceps, scalpels, needles and seekers, all available individually or assembled in sets. Dissecting boards are shown in the General Apparatus section.

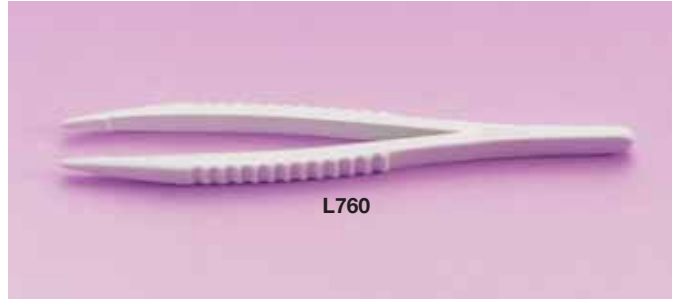


## FORCEPS

### SAMCO Spring Forceps

Glass filled nylon, autoclavable to 125°C

Code	Size mm
L760/01	125



### Spring Forceps

Blunt, narrow flutes, without guide pin, stainless steel

Code	Size mm
E003/01	115
E003/02	125
E003/03	150
E003/04	175
E003/05	200

### Spring Forceps

Sharp, narrow flutes, with guide pin, stainless steel

Code	Size mm
E004/01	115
E004/02	125
E004/03	150

### Spring Forceps

Sharp, narrow flutes, curved, with guide pin, stainless steel

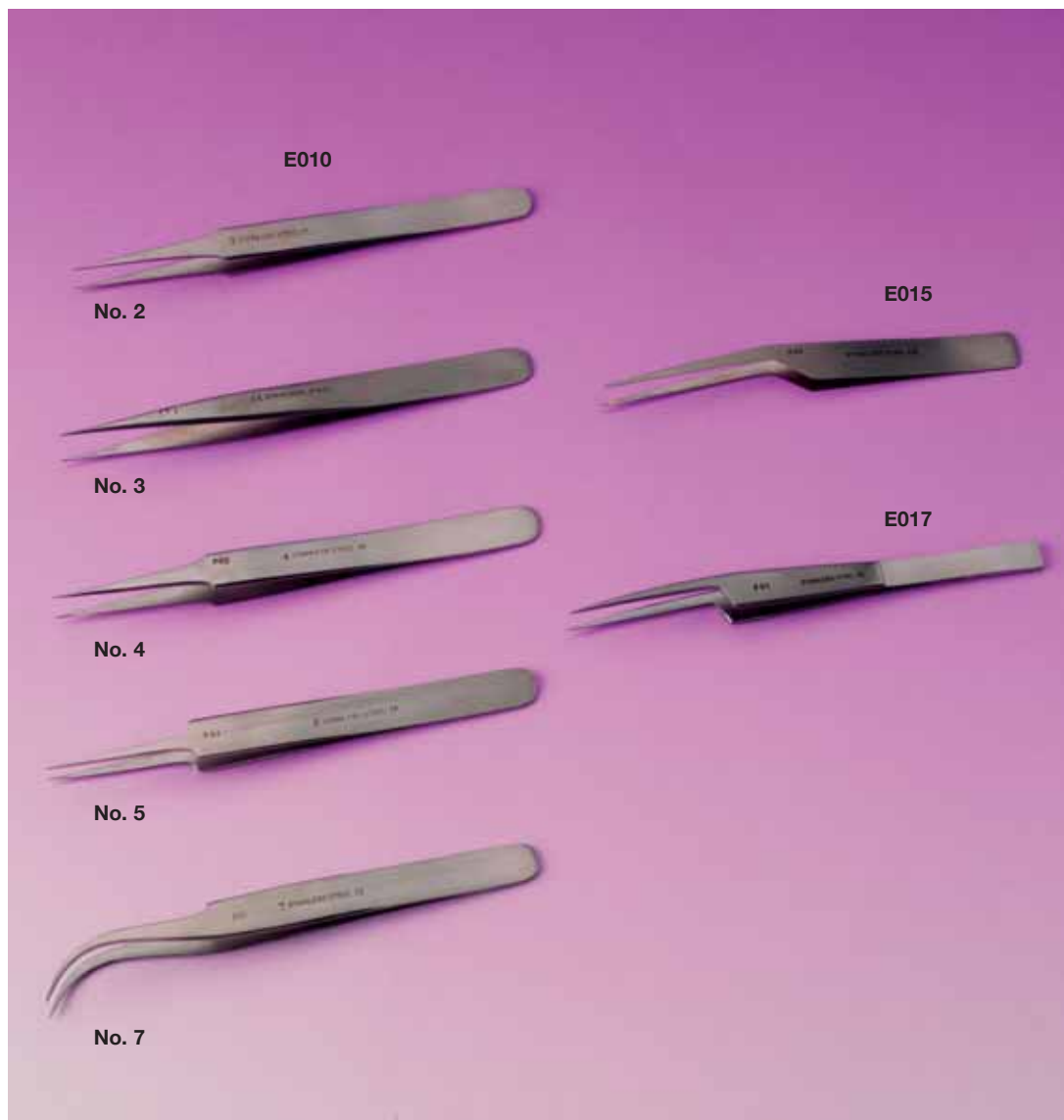
Code	Size mm
E006/01	115
E006/02	125

### Spring Forceps

Entomological, with guide pin, stainless steel

Code	Size mm
E009/01	120

Stainless steel forceps on this page originate from Pakistan, but are inspected and re-packed by our Quality Control staff in the U.K.



### Watchmaker Forceps

Code	Size mm	Type
E010/02	115	No. 2
E010/03	115	No. 3
E010/04	110	No. 4
E010/05	110	No. 5
E010/07	115	No. 7

All items on this page originate from Pakistan but are inspected and re-packed by our Quality Control staff in the U.K.

### Spring Forceps

Featherweight tweezers, stainless steel

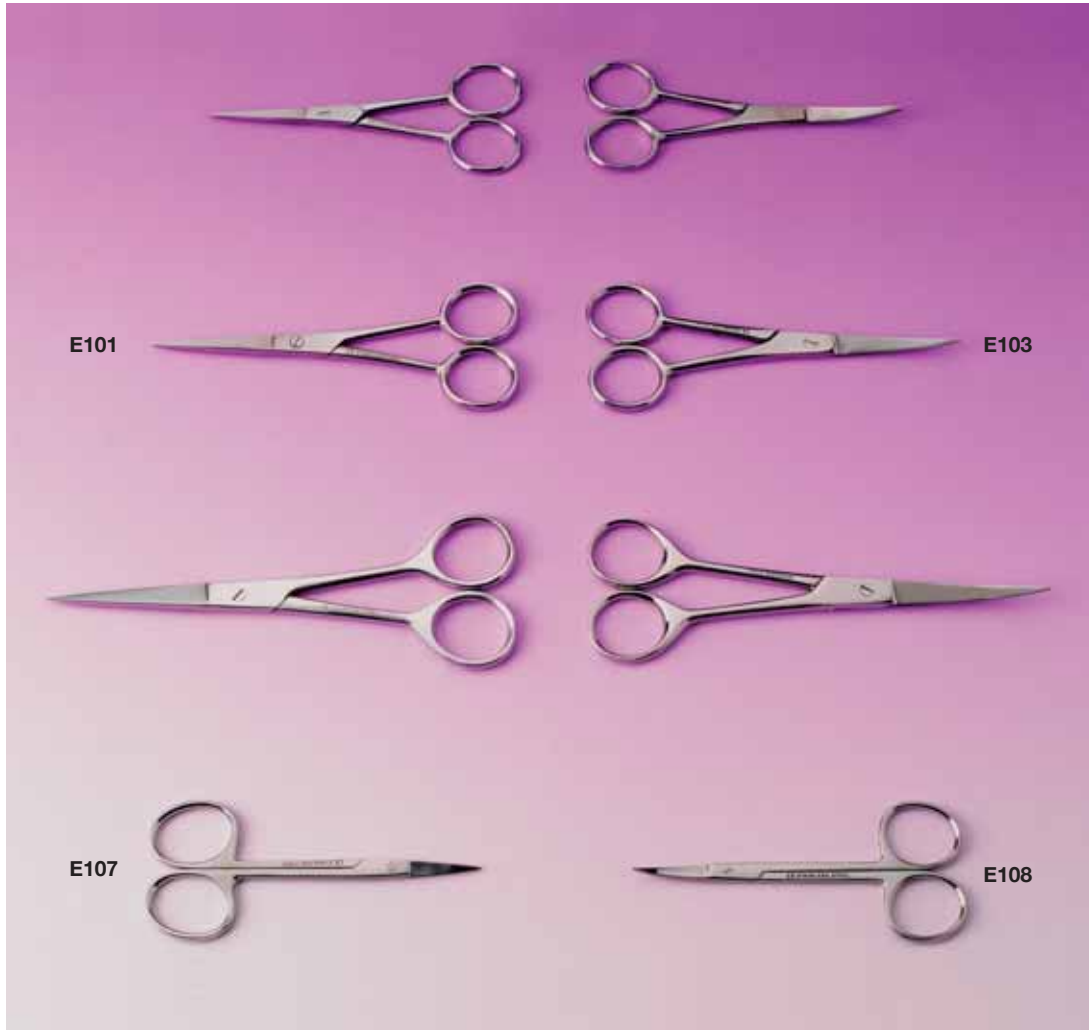
Code	Size mm
E015/01	102

### Spring Forceps

Storkbill tweezers, stainless steel

Code	Size mm
E017/01	110

## SCISSORS



### Dissecting Scissors

Open shanks, straight, stainless steel

Code	Size mm
E101/01	112
E101/02	125
E101/03	150

### Dissecting Scissors

Open shanks, curved, stainless steel

Code	Size mm
E103/01	112
E103/02	125
E103/03	150

### Dissecting Scissors

Closed shanks, fine point, straight, stainless steel

Code	Size mm
E107/01	105

### Dissecting Scissors

Closed shanks, fine point, curved, stainless steel

Code	Size mm
E108/01	105

All items on this page originate from Pakistan but are inspected and re-packed by our Quality Control staff in the U.K.



### Dressing Scissors

Straight, blunt/blunt, stainless steel

Code	Size mm
E801/02	125

### Dressing Scissors

Straight, blunt/sharp, stainless steel

Code	Size mm
E802/02	125

### Dressing Scissors

Straight, sharp/sharp, stainless steel

Code	Size mm
E803/02	125

### Dressing Scissors

Straight, probe/sharp, stainless steel

Code	Size mm
E812/01	125

### Household Scissors

Stainless steel

Code	Size mm
E901/02	125
E901/04	150
E901/06	175

All items on this page originate from Pakistan but are inspected and re-packed by our Quality Control staff in the U.K.

## SCALPELS



### Scalpel Handles

Stainless steel

Code	Type
E243/11	No. 3
E243/12	No. 4

### Scalpels

Solid forged, polished blade, stainless steel

Code	Size mm
D021/01	30
D021/02	35
D021/03	45
D021/04	50

All items on this page originate from Pakistan but are inspected and re-packed by our Quality Control staff in the U.K.

### Scalpels

Carbon steel

Code	Size mm
D021/11	30
D021/12	35
D021/13	45
D021/14	50

### Scalpels

Light pattern, stainless steel

Code	Size mm
D021/G1	30
D021/G2	35
D021/G3	45
D021/G4	50





### Scalpel Handles

Swann Morton

Code	Type
1802/05	No. 3
1802/15	No. 4
1802/25	No. 7

### Scalpel Blades

Swann Morton

Carbon, non-sterile to fit handles no. 3 and no. 7

Code	Type
1803/05	No. 10
1803/10	No. 10a
1803/15	No. 11
1803/20	No. 12
1803/25	No. 15

### Scalpel Blades

Swann Morton

Carbon, non-sterile to fit handle no. 4

Code	Type
1803/30	No. 20
1803/35	No. 21
1803/40	No. 22
1803/45	No. 22a
1803/50	No. 23
1803/55	No. 24
1803/60	No. 25
1803/65	No. 26
1803/70	No. 27

## NEEDLES & SEEKERS



### Dissecting Needle

Stainless steel, in non-metal handle

Code	Type
D201/01	Straight, sharp

### Dissecting Seeker

Stainless steel, in non-metal handle

Code	Type
D202/01	Bent, blunt

### Dissecting Needle

All stainless steel

Code	Type
D207/01	Straight, sharp

### Dissecting Seeker

All stainless steel

Code	Type
D208/01	Bent, blunt

### Borrodaile Needle

All stainless steel

Code
D210/01

### Dissecting Awl

Stainless steel spike in milled aluminium handle

Code	Length of spike mm	Type
D215/01	28	Large
D215/31	28	Small

### Dissecting Awl

Stainless steel spike in wooden handle

Code
D216/01

## SECTION LIFTER

### Section Lifter

Stainless steel

Code	Length of blade mm
D220/01	55



## DISSECTING ROLLS

### Khaki Canvas Roll

13 pockets, tape tie  
Pakistan origin

**Code**

**D225/01**

### PVC Dissecting Roll

13 transparent pockets, tape tie

**Code**

**D226/01**



## DISSECTING SETS



### Basic Set

Comprising:

1 scalpel	D021/G2
1 scalpel	D021/G3
2 needles	D201/01
1 seeker	D202/01
1 forceps, blunt	E003/02
1 forceps, sharp	E004/02
1 scissors, fine	E101/01
1 scissors, blunt	E801/02
all in pvc roll	D226/01

**Code**

**E251/01**

### Advanced Set

Comprising:

1 scalpel	D021/G2
1 scalpel	D021/G3
1 scalpel	D021/G4
2 needles	D207/01
1 seeker	D208/01
1 section lifter	D220/01
1 forceps, blunt	E003/02
1 forceps, sharp	E004/02
1 forceps, sharp, curved	E006/02
1 scissors, fine	E101/01
1 scissors, blunt	E801/02
1 section razor	E031/11
all in pvc roll	D226/01

**Code**

**E258/01**

For origin of contents of sets see previous pages.

## GENERAL PURPOSE SCISSORS

### Heavy Duty

Saw edge, stainless steel,  
autoclavable handles  
Pakistan origin

Code	Size mm
1916/05	180

### Universal Bandage

Saw edge, stainless steel,  
autoclavable handles  
German origin

Code	Size mm
1917/05	175



## SECTION RAZOR

### Section Razor

Black handle, stainless steel blade  
Pakistan origin

Code
E031/11



## BONE CUTTERS

### Bone Cutter

Overlapping spring  
German origin

Code	Size mm
D631/01	140

### Bone Cutter

Coil spring  
German origin

Code	Size mm
D632/01	120





Although best known for tubular glassware, blow moulded containers and dissecting instruments S Murray & Co also manufacture and supply a wide range of general laboratory consumables, including metalware and injection moulded and extruded plastic products.

In addition to SAMCO products, this section includes a useful selection of sundry items, some of which are imported. These products are purchased only from manufacturers who have been approved in accordance with S Murray's quality management system, and all goods received are subject to stringent inspection procedures.



## DRESSING JARS



### Dressing Jars

Moulded glass, circular. Czech origin

Code	Height mm	Diameter mm
G500/01	100	100
G500/02	150	100
G500/03	200	100
G500/04	125	125
G500/05	150	150
G500/06	200	150
G500/07	250	150
G500/08	200	200
G500/09	250	200
G500/10	300	200

### Lids

Moulded glass, circular. Czech origin

Code	Diameter mm
G501/01	100
G501/02	125
G501/03	150

### Lids

Stainless steel, circular with plain rim

Code	Diameter mm
G502/01	100
G502/02	125
G502/03	150
G502/04	200

### Lids

Stainless steel, circular with rubber lining

Code	Diameter mm
G503/01	100
G503/02	125
G503/03	150
G503/04	200

## SPIRIT LAMPS

**Spirit Lamp**

Glass with fitted wick in ceramic burner.  
Czech origin

Code	Nominal capacity ml
G671/01	50
G671/02	100



## DROP BOTTLES

**TK Drop Bottle**

Clear glass. Czech origin

Code	Nominal capacity ml
G730/02	50
G730/03	100

**TK Drop Bottle**

Amber glass. Czech origin

Code	Nominal capacity ml
G731/01	30
G731/02	50
G731/03	100



## COPLIN JAR

**Coplin Jar**

Heavy glass with drop-on lid, to hold 10 slides.  
Czech origin

Code
G740/01



## GLASS JARS



### Powder Jars

Tall, clear glass, without caps

Code	Nominal capacity	Height mm	Diameter mm	Quantity per pack	Cap reference
G805/02	30ml	59	39	104	R3/33
G805/03	60ml	76	45	60	R3/38
G805/05	4oz	95	54	60	R3/38
G805/07	8oz	119	64	28	R3/48
G805/08	500ml	150	83	24	R3/58

### Powder Jars

Tall, amber glass, without caps

Code	Nominal capacity	Height mm	Diameter mm	Quantity per pack	Cap reference
G805/A2	30ml	59	39	127	R3/33
G805/A3	60ml	76	45	72	R3/38
G805/A5	4oz	95	54	48	R3/38
G805/A7	8oz	59	39	42	R3/48
G805/A8	500ml	150	83	24	R3/58

### Ointment Jars

Squat, clear glass, without caps

Code	Nominal capacity	Height mm	Diameter mm	Quantity per pack	Cap reference
G806/02	30ml	46	41	74	R3/38
G806/03	60ml	52	52	60	R3/51
G806/04	120ml	63	62	72	R3/58
G806/06	250ml	73	86	48	R3/83
G806/07	500ml	84	110	24	R3/100

Ointment Jars are also available in amber glass

Pack quantities are subject to variation and are given for guidance only

### Sloping Shoulder Flats

Clear glass, without caps

Code	Nominal capacity	Height mm	Width x Depth mm	Quantity per pack	Cap reference
G802/04	100ml	142	52 x 29	80	R3/24
G802/05	150ml	159	58 x 33	48	R3/24
G802/06	200ml	175	63 x 37	48	R3/28
G802/07	300ml	196	72 x 42	39	R3/28
G802/08	500ml	202	89 x 54	36	R3/28

Sloping Shoulder Flats are also available in amber glass



## CAPS FOR BOTTLES & JARS

### Aluminium

Rubber lined

Code	Cap reference
G807/04	R3/22
G807/05	R3/24
G807/06	R3/28

### Black Urea

Smooth, PVDC faced wads

Code	Cap reference
G808/04	R3/22
G808/05	R3/24
G808/06	R3/28
G808/07	R3/33
G808/08	R3/38
G808/10	R3/48
G808/11	R3/51
G808/12	R3/58
G808/16	R3/83
G808/17	R3/100



Pack quantities are subject to variation and are given for guidance only

## SYRINGES



### SAMCO Syringe, All Glass

All glass, luer fitting, fully interchangeable. Italian origin

Code	Capacity ml
G811/01	1
G811/02	2
G811/03	5
G811/04	10
G811/05	20

### SAMCO Syringe, Gas Chromatography

All glass, fully interchangeable. Italian origin

Code	Capacity ml
G811/32	100

### SAMCO Syringe, Metal Tip

Glass with metal tip, luer fitting, fully interchangeable. Italian origin

Code	Capacity ml
G812/02	2
G812/03	5
G812/04	10
G812/05	20
G812/06	50
G812/31	100

### SAMCO Syringe, Luer Lock

Glass with metal luer lock tip, fully interchangeable. Italian origin

Code	Capacity ml
G813/01	1
G813/02	2
G813/03	5
G813/04	10
G813/05	20
G813/06	50



## FUNNELS

**Funnel**

Moulded glass, plain pattern

Code	Diameter ml
G826/01	50
G826/02	70
G826/03	100
G826/04	150
G826/05	200



## WATCH GLASSES

**Watch Glass**

Ground edge. Czech origin

Code	Diameter ml
G850/01	50
G850/02	80
G850/03	100
G850/04	130
G850/05	150
G850/06	200



## CLAMPS

### Clamp, 3 Prong

Suitable for articles from 1mm to 70mm diameter. Diecast aluminium with nickel plated brass tommy screw and rubber covered jaws

Code

L001/01

### Clamp, Universal

Suitable for articles up to 100mm diameter. Diecast aluminium with stainless steel shank. Fitted with nickel plated brass tommy screw and cork lined jaws.

Code

L002/01



## BOSSHEAD

### Bosshead, Alloy

Suitable for rods up to 16mm diameter. Diecast in non-ferrous alloy with nickel plated brass tommy screws

Code

L003/01



## RETORT RINGS

### Retort Ring

Eccentric, complete with integral boss, stove enamelled with brass tommy screw. Suitable for rods up to 13mm diameter

Code

Size  
mm

L005/01 50

L005/02 70

L005/03 100

L005/04 130

L005/05 160



# GENERAL APPARATUS

## LABORATORY SCAFFOLDING & CLAMPS

### Scaffold Clamps

Code	Type
LC55/A	Right angle
LC55/B	Swivel
LC55/F2	Plain end with hole
LC55/J	3 way
LC55/L	In-line Swivel

### Scaffold Sockets

Code	Type
LC55/M	Flange mounted



## RETORT STANDS & TUBING

### Retort Stand Bases

Steel, tapped 10mm

Code	Dimensions mm
LA55/RA	160 x 100
LA55/RB	200 x 125

### Retort Stand Rods

Hollow retort rod, aluminium 12mm with 10mm threaded end

Code	Length mm
LT55/25	250
LT55/50	500
LT55/60	600

### Tubing Open Ended

Aluminium, untapped suitable for use with tube trim LA55/TT

Code	Length mm	Diameter mm
LT55/A1	1000	12
LT55/A2	2000	12

### Tube Trim

Code	Material	Pack Quantity
LA55/TT	Polythene	10



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**SAMCO**

## RETORT STANDS

### Retort Stand Base

Steel, grey finish, individually inspected to ensure level standing, tapped 10mm

Code	Size mm
L007/01	160 x 100
L007/02	200 x 125
L007/03	250 x 160

### Retort Stand Rod

Mild steel, unplated. Threaded to fit base L007

Code	Size mm
L010/03	500 x 12
L010/04	600 x 12
L010/05	750 x 12

### Retort Stand Rod

Aluminium alloy with bright finish. Threaded to fit base L007

Code	Size mm
L012/03	500 x 12
L012/04	600 x 12
L012/05	750 x 12



## BUNSEN BURNERS

### Bunsen Burner

Heavy gauge steel base. Suitable for use with coal gas, 11mm

Code
L050/01

### Bunsen Burner

Heavy gauge steel base. Suitable for use with bottled gas, 11mm

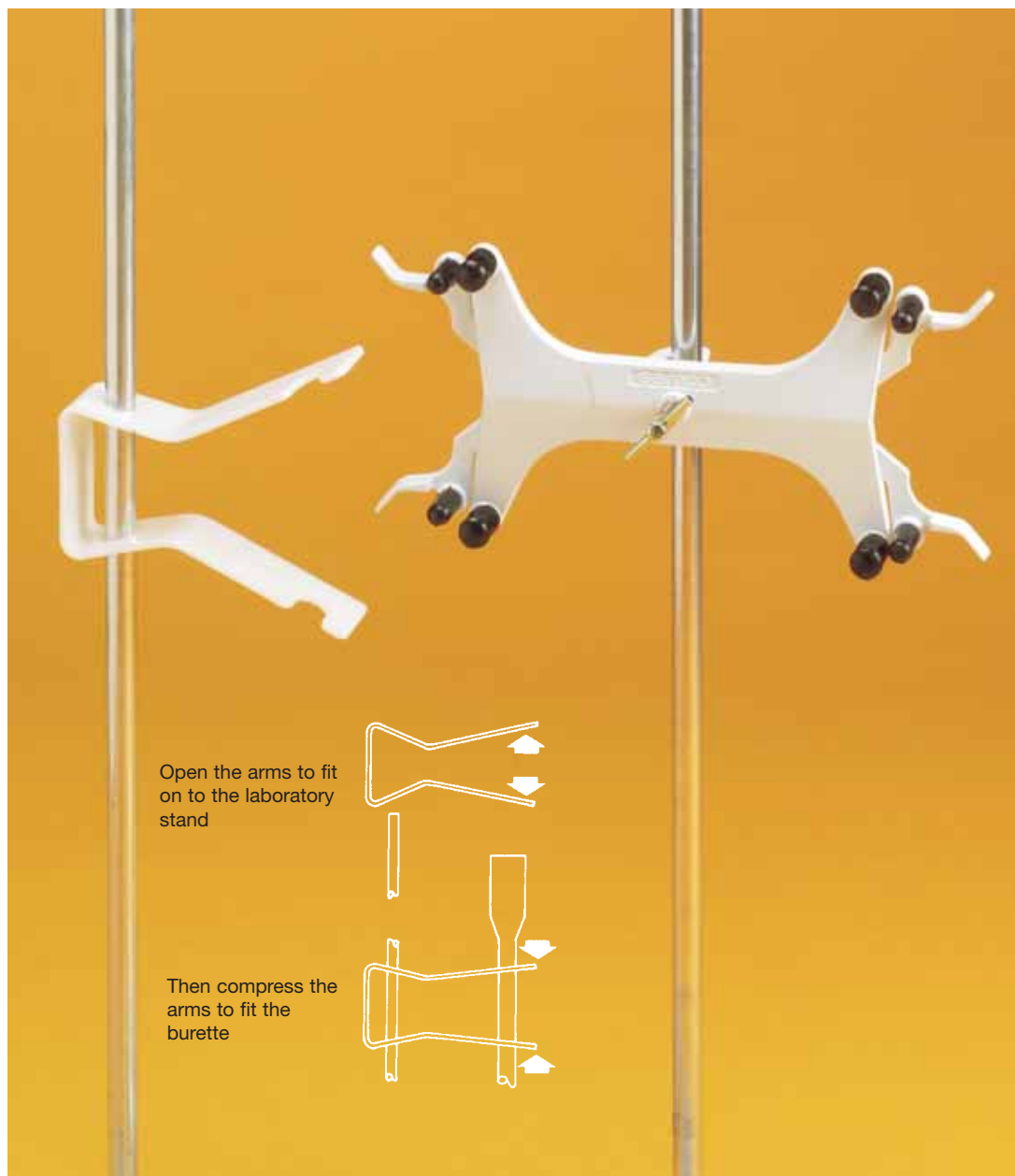
Code
L051/01

### Bunsen Burner

Heavy gauge steel base. Suitable for use with natural gas, 11mm

Code
L052/01





### SAMCO Burette Clamp

This one-piece clamp holds 50ml burettes firmly to a laboratory stand. It can be fitted and adjusted with one hand. Moulded in acetal copolymer it is easy to clean, can be sterilised and is resistant to most acids and alkalis

Code

L014/01

### Double Burette Clamp

High strength alloy casting with plastic jaws. The spring is positive, yet allows easy operation and will not damage glassware. Suitable for all burettes up to 100ml capacity

Code

L015/01

## JACKS

### Laboratory Jack

Top and bottom plates are stainless steel for maximum chemical durability and the four locking screws give complete stability in any position

Code	Plate dimensions mm	Adjustment range mm	Maximum load kg	Lifting power kg
L017/00	100 x 120	55-120	50	8
L017/01	130 x 160	55-270	70	12
L017/02	180 x 220	73-375	90	15



## TRIPODS

### Tripod

Triangular

Code	Size mm
L020/01	200 x 125
L020/02	200 x 150

### Tripod

Circular

Code	Size mm
L021/01	200 x 125





## GAUZES

### Gauze

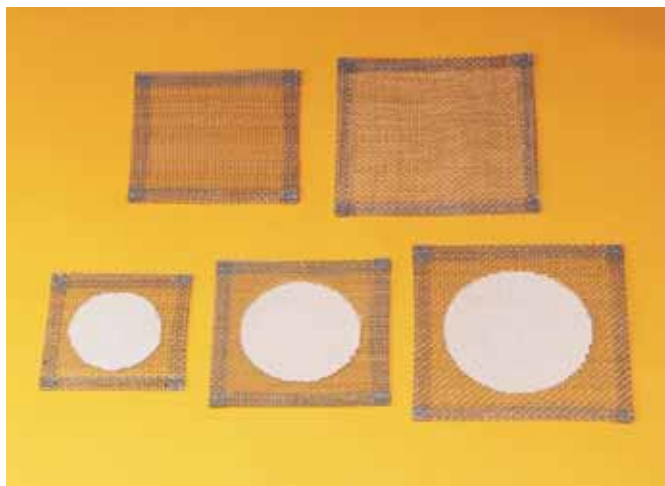
Plain stout iron wire.  
Imported

Code	Size mm
L024/02	125
L024/03	150

### Gauze

Plain stout iron wire, flat form with  
ceramic centre.  
Imported

Code	Size mm
L025/01	100
L025/02	125
L025/03	150



## PIPECLAY TRIANGLES

### Pipeclay Triangles

Pipeclay stems on stout wire

Code	Size mm
L026/02	50
L026/03	63
L026/04	75



## CRUCIBLE TONGS

### Crucible Tongs

Stainless steel, straight

Code	Size mm
L034/01	200

### Crucible Tongs

Stainless steel, with bow

Code	Size mm
L035/01	200



## GLASS-WRITING

### Pencils

For writing on glass, supplied in boxes of 12

Code	Colour
L102/01	Black
L102/02	Blue
L102/03	Brown
L102/04	Red
L102/05	Green
L102/06	Yellow
L102/07	White



### Glass Writing Diamonds

Diamonds in metal mount on wooden handle

Code
L103/01

## WIRE HOLDERS



### Platinum Wire Holders

Nickel plated brass fitted with screw chuck. Suitable for wire or needles up to 0.56mm (24swg)

Code	Size mm
L110/01	150
L110/02	175
L110/03	200

### Platinum Wire Holders

As L110 but fitted with PVC handles

Code	Size mm
L111/01	150
L111/02	175
L111/03	200

### Platinum Wire Holders

Aluminium with nickel plated brass collar. Suitable for wire or needles up to 0.56mm (24swg)

Code	Size mm
L112/01	150
L112/02	175
L112/03	200

### Platinum Wire Holders

As L112 but fitted with PVC handles

Code	Size mm
L113/01	150
L113/02	175
L113/03	200

## PALETTE KNIVES

### Palette Knife

Stainless steel, parallel sided blade in black polypropylene handle, autoclavable

Code	Size mm
L120/11	105
L120/12	150
L120/13	200
L120/14	250
L120/15	300



## SPATULAS

### Chattaway Spatula

Code	Size mm	Material
L130/01	200	Light stainless steel
L130/11	200	Light nickel
L130/02	200	Medium stainless steel
L130/12	200	Medium nickel

### Micro Spatula

Stainless steel

Code	Size mm
L132/01	100
L132/02	125
L132/03	150
L132/04	200

### Horn Spatula

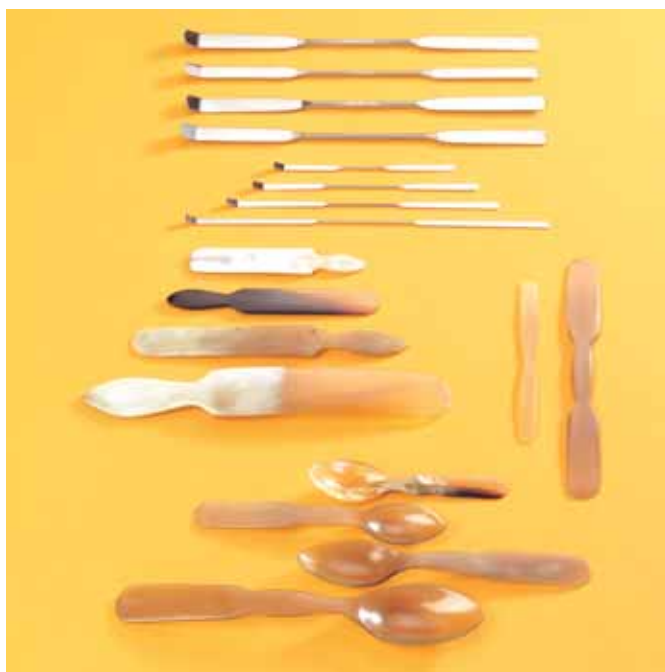
Single ended

Code	Size mm
L136/01	100
L136/02	125
L136/03	150
L136/05	200

### Horn Spatula

Thin double ended

Code	Size mm
L138/01	100
L138/03	150

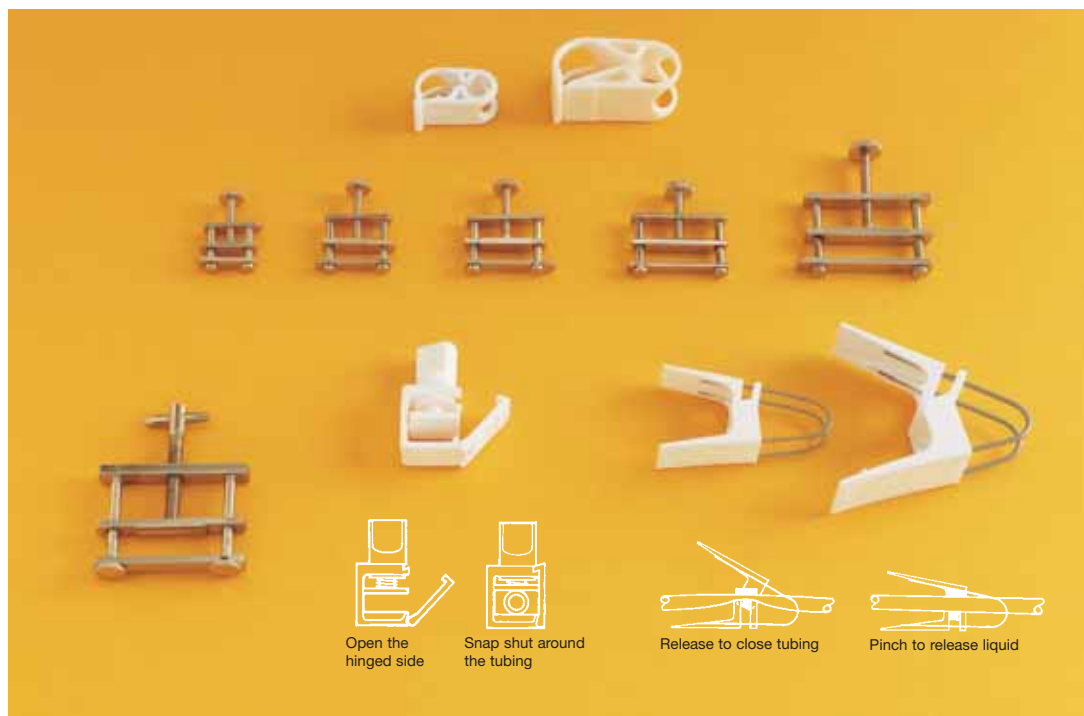


### Horn Spoon

With spatula handle

Code	Size mm
L139/01	100
L139/02	125
L139/03	150
L139/05	200

## TUBING CLIPS



### Ratchet Clip

Closes tubing to external diameters shown

Code	Size mm	Material
L140/02	10	Polypropylene
L140/03	17	Polyester

### Hoffman Clip

Bunsen screw clip, nickel plated brass fitted with protection plate and hinged bottom bar. Dimensions shown are width of gate

Code	Size mm
L141/01	13
L141/02	20
L141/03	25
L141/04	32
L141/05	40

### Hoffman Clip

Heavy duty fitted with nickel plated brass tommy screw and hinged bottom bar. Dimension shown is width of gate

Code	Size mm
L142/02	40

### SAMCO Screw Tubing Clip

Closes rubber and flexible PVC tubing of up to 14mm external diameter. The hinged side allows it to be clamped around the tubing, already connected to the apparatus. The screw adjustment ensures fine flow control. Moulded in acetal copolymer which is easy to clean, can be sterilised and is resistant to most acids and alkalis

Code
L145/01

### SAMCO Spring Tubing Clip

Operates with a parallel action to provide optimum closure of rubber and flexible PVC tubing. Made from chemical and stain resistant acetal copolymer and stainless steel.

Size 8: accepts tubing up to 8mm outside diameter  
Size 12: accepts tubing up to 12mm outside diameter

Code	Size mm
L150/01	8
L150/02	12

## SLIDE HOLDERS

### Micro Slide Box

Hinged lid, leatherette covered, fitted with slotted wooden racks

Code	Capacity
L320/01	To hold 50 slides
L320/02	To hold 100 slides

### Micro Slide Tray

To hold 24 slides in 4 compartments

Code
L322/01

### Micro Slide Tray

To hold 20 slides with two hinged flaps, indexed

Code
L323/01



### Cover Slip Forceps

Stainless steel. Pakistan origin

Code
L325/01



## FUNNELS

### Funnels

Polythene, ribbed

Code	Diameter mm
L790/01	37
L790/02	65
L790/03	90
L790/04	115
L790/05	140
L790/06	165
L790/07	205



## BURETTE & FUNNEL STANDS



### Burette Stand

Hardwood, with plastic screws

Code	Type
L326/01	Single
L326/02	Double

### Funnel Stand

Hardwood, with plastic screw

Code	Type
L327/01	Single
L327/02	Double
L328/01	Combined Funnel/Burette

### Spare Parts for Burette and Funnel Stands

Code	Type	Size mm
L326/71	Burette holder, single	
L326/72	Burette holder, double	
L326/75	Burette/Funnel base, single	205 x 110
L326/76	Burette/Funnel base, double	290 x 110
L326/77	Burette/Funnel stand rod	440 x 18
L327/71	Funnel holder, single	
L327/72	Funnel holder, double	
L328/71	Burette/Funnel holder	





### Test Tube Stands

Hardwood, with plastic ends.

Packs flat for transport and storage

Code	Size mm
L330/01	6 hole, all 22mm
L330/21	6 hole, all 32mm
L330/22	6 hole, 2 x 32mm, 4 x 22mm
L330/03	12 hole, all 22mm
L330/25	12 hole, 2 x 32mm, 10 x 22mm

Code	Size mm
L331/01	6 hole, all 22mm, with drying pegs
L331/22	6 hole, 2 x 32mm, 4 x 22mm, with drying pegs
L331/03	12 hole, all 22mm, with drying pegs
L331/25	12 hole, 2 x 32mm, 10 x 22mm, with drying pegs

## TEST TUBE RACK

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### Nuffield Rack

Hardwood, 170 x 60 x 25mm

Code	Size mm
L329/01	10 hole, 4 x 25mm, 6 x 17mm

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## TEST TUBE HOLDER

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### Test Tube Holder

Wooden with spring

Code
L332/01

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## DISSECTING BOARDS

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### Dissecting Boards

Wooden with frame edge

Code	Size mm
Y335/01	462 x 300 x 17
Y335/02	550 x 400 x 17

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## BRUSHES

### Test Tube Brush

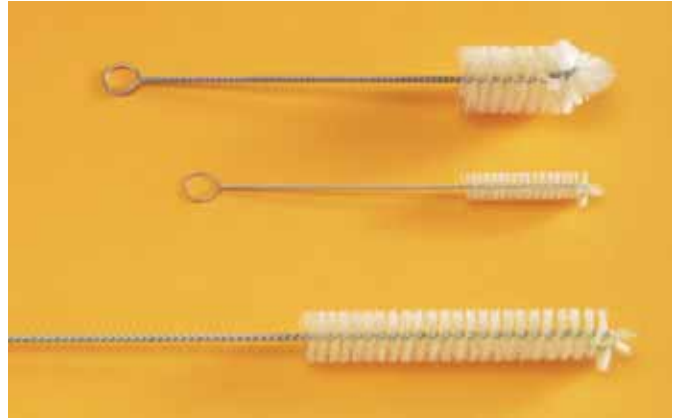
Bristle on wire handle

Code	Approx. overall length mm	Test tube diameter mm
L340/01	220	16
L340/02	175	12

### Burette Brush

Bristle on wire handle 50ml

Code	Approx. overall length mm	Burette capacity ml
L342/01	750	50



## TONGUE DEPRESSORS

### Tongue Depressors

Beech wood. Packed in cases of 50 boxes of 100.

Imported

Code	Size mm
L601/01	150 x 19



## APPLICATORS

### Applicators

Wooden, packed in cases of 50 boxes of 72 dozen.

Imported

Code	Size mm
L602/01	150



## TUBING



### Tubing

Non toxic Polyvinylchloride (PVC) very elastic grade. Dimensions are to BS 2775. This tubing is very flexible and will retain its bore on bending. It can be sterilised up to 121 Deg. C

Code	Coil length m	Internal diameter mm	Wall thickness mm
L800/01	30	3.0	0.75
L800/02	30	5.0	1.50
L800/03	30	6.5	1.50
L800/04	30	8.0	2.00
L800/05	30	10.0	2.00
L800/06	10	12.5	2.25
L800/07	10	16.0	3.25
L800/08	10	20.0	3.25
L800/09	10	25.0	3.25

### Tubing, Reinforced

Non toxic. Polyvinylchloride (PVC). This tubing is both flexible and strong with terylene mesh reinforced wall. Wall thicknesses are approximate

Code	Coil length m	Internal diameter mm	Wall thickness mm
L801/01	10	5.0	3.0
L801/02	10	6.5	3.0
L801/03	10	8.0	3.0
L801/04	10	10.0	3.0
L801/05	10	12.5	3.0
L801/06	10	16.0	3.0
L801/07	10	19.0	4.0

## SPHYGMOMANOMETERS

### Aneroid Sphygmomanometer

300mm Hg, with velcro cuff, in black zip-up case

**Code**

2060/01

### Spare Parts for Sphygmomanometers

**Code**

**Part**

2060/21	Cuff - Adult
2060/23	Bladder - Adult
2060/25	Bulb
2060/26	Control Valve
2060/27	End Valve
2060/30	Gauge
2060/31	Case



## STETHOSCOPES

### Stethoscope Nurse

Single head

**Code**

2080/01

### Stethoscope Popular

Dual head

**Code**

2081/01

### Spare Parts for Stethoscope

**Code**

**Part**

2089/21	PVC Tubing
2089/22	Headframes

Tubing colours may vary



All items on this page are of Taiwanese origin



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# S MURRAY & CO

## TERMS & CONDITIONS

### 1. DEFINITIONS

1. "The Company" - means S Murray & Co Limited.
2. "The Customer" - means the customer of the company.
3. "The Contract" - means any contract for the sale of goods by the company to the customer.
4. "The goods" - means goods of any description forming the subject matter of this contract including, parts, components and ingredients of any materials incorporated into the goods.

### 2. QUOTATIONS

Quotations by the company unless otherwise stated in terms or otherwise agreed by the company in writing shall be open for acceptance within 30 days of the date of the quotation.

### 3. EXISTENCE OF CONTRACT

1. No contracts shall come into existence until the customer's order (whether placed pursuant to a quotation or otherwise) is accepted by the earliest of:

- (a) the company's written acceptance;
- (b) delivery of the goods;
- (c) delivery of the company's invoice.

2. These conditions shall be incorporated in the contract to the exclusion of any terms and/or conditions stipulated or referred to by the customer.

3. No variations or amendments of this contract or these terms and conditions shall be binding on the company unless confirmed by it in writing.

4. The customer hereby agrees that no reliance will be placed upon any written or oral statements or representation made by the company or its servants or agents which is not enclosed or contained in the company's quotation or acknowledgement of order or which is not reduced into writing by the customer and acknowledged in writing by the company before the contract comes into existence in accordance with sub-paragraph 3.1 above.

### 4. PRICES

1. Prices are ex-works and exclude freight, insurance and delivery charges; and further exclude Value Added Tax and all other taxes or duties whatsoever.

2. The company shall have the right to increase its prices to the customer to account for any alteration in the cost of materials, parts, or labour or to account for any changes in work or delivery schedules or quantities, or to account for increases in the company's costs of any kind arising for any reason after the date of the contract.

3. The company shall not increase the price of any goods which are the subject matter of an invoice already delivered by the company to the customer.

### 5. PAYMENT

1. All invoices are payable without discount of any kind in pounds sterling on the last day of the month following the date on the company's invoices at the premises stated on the invoice as being the company's premises.

2. In no circumstances whatsoever shall the customer be entitled to make any deduction or claim any set-off or with-hold payment on any invoice for any reason at all.

3. Time for payment shall be of the essence of the contract. The customer may be required to pay to the company interest on any overdue amount from the dates the payment was due to that on which it is made (whether before or after judgement) on a daily basis at the rate of 4% per annum over the base rate from time to time quoted by National Westminster Bank Plc and the customer shall reimburse to the company all costs and expenses (including legal costs) incurred in the collection of any overdue amount.

### 6. TITLE

1. Property in the goods shall remain with the company and shall not pass to the customer (notwithstanding the earlier passing of risk) until the price of the goods has become due and has been paid by the customer in full.

2. Until property passes to the customer upon payment for the goods the customer shall hold the goods as bailee for the company and shall store or mark them so that they can at all times be identified as the property of the company.

3. The company shall be entitled at any time before property passes to the customer to repossess all or any of the goods and/or use or sell them (without any liability to the customer), and so terminate the customer's right to use, sell or otherwise deal with them as the company's bailees.

4. For the purposes set out in sub-paragraph 6.3 above or for the purposes of determining what goods are held by the customer and inspecting them, the company or its authorised agents may at any time enter and remain upon any premises of the customer.

5. The company shall be entitled at any time before property passes to the customer whether or not payment for the goods is due require the customer forthwith to return the goods to the company (at the customer's expense) to any address the company may reasonably specify.

6. Until property passes the entire proceeds of sale of the goods shall be held in trust for the company and shall not be mixed with other monies or paid into any overdrawn bank account and shall be at all times identifiable as the proceeds of sale.

7. The company shall be entitled to maintain an action against the customer for the price of the goods notwithstanding that property in them has not passed to the customer.

### 7. DELIVERY; RISK; PERFORMANCE

1. Goods are delivered to the customer when the company makes them available to the customer or any agents of the customer or any carrier (who shall be the customer's agent whoever pays his charges) at the company's premises or other delivery point agreed in writing by the company.

2. Risk in the goods passes when they are delivered to the customer as aforesaid.

3. The company may deliver goods by instalments in any sequence.

4. No default or failure by the company in respect of any one or more instalments shall vitiate the contract in respect of goods already delivered to the customer, or yet to be delivered to the customer and where the goods are delivered by instalments each instalment shall be deemed to be the subject of a separate contract.

5. The company may deliver and the customer shall accept in satisfaction of the contract a lesser quantity than the quantity of goods ordered.

6. Any dates quoted by the company or specified by the customer for the delivery of the goods are deemed to be approximate only and shall not form part of the contract and the customer acknowledges that in the performance expected of the company no regard has been paid to any quoted delivery dates.

7. Time for delivery is not of the essence of the contract.

8. If the customer fails to take delivery of the goods or any part of them on the date they are made available and/or fails to provide written instructions or any documents licences consents or authorisations required to enable the goods to be delivered the company shall be entitled to store or arrange for the storage of the goods, and the risk in the goods shall pass to the customer delivery shall be deemed to have taken place and the customer shall pay to the company all costs and expenses including storage and insurance charges arising from its failure.

9. The company shall not be liable for any penalty loss injury or damage or expense arising from any delay or failure in delivery or performance from any cause whatsoever nor shall any such delay or failure entitle the customer to refuse to accept any delivery or performance of or to repudiate or terminate the contract.

### 8. CLAIMS NOTIFICATION

1. Any claim for non-delivery of any goods in the United Kingdom shall be notified by the customer to the company within 14 days of the date on the company's invoice.

2. Any claims that the goods have been delivered damaged or are not of the correct quantity or do not comply with the description in the contract shall be notified by the customer to the Company within seven days of their delivery or deemed delivery.

3. Any alleged defect in the goods shall be notified by the customer to the Company within seven days of delivery or in the case of any defect which is not reasonably apparent on inspection within seven days of the defect coming to the customer's attention.

4. Any claim under this condition must be in writing and must contain full details of the claim including any details required by the Company to identify the goods.

5. The Company shall be afforded a reasonable opportunity and facilities to investigate any claims under this condition and the customer shall if so requested in writing by the Company promptly return any goods the subject of any claim and any packing securely packed and carriage paid to the Company for examination.

6. The Company shall have no liability with regard to any claim in respect of which the customer has not complied with the provisions of this condition.

### 9. SCOPE OF CONTRACT

1. Under no circumstances whatsoever shall the Company have any liability of whatever kind for:

- (a) any defects resulting from wear and tear accident or improper use or storage after delivery;
- (b) any goods which have been altered after delivery;
- (c) the suitability of any goods for any particular purpose or use under specific conditions whether or not those purposes or conditions were known or communicated to the Company.

2. Under no circumstances whatsoever shall the Company have any liability of whatever kind for any:

- (a) descriptions, illustrations, specifications, figures as to performance, drawings and particulars of weights and dimensions submitted by the Company contained in the Company's catalogues, price lists or elsewhere since they are merely intended to project a general idea of the goods and not to form part of the contract or be treated as representations;
- (b) technical information recommendations, statements or advice furnished by the Company's servants or Agents;
- (c) any variations in the quantities or dimensions of any goods or changes in their specifications or substitution of any materials if the variation or substitution does not materially affect the characteristics of the goods and the substituted materials are of a quality equal or superior to those originally specified.

### 10. EXTENT OF LIABILITY

1. The Company shall have no liability to the customer (other than liability for death or personal injury resulting from the Company's negligence) for any loss or damage of any nature arising from any breach of any express or implied warranty or condition of the contract or any negligence breach of statutory or other duty on the part of the Company or in any other way out of or in connection with the performance or purported performance of or failure to perform the contract except in accordance with this condition.

2. If the customer establishes that goods have not been delivered or have been delivered damaged or are not of the correct quantity or do not comply with their description or are defective, the Company shall at its option replace with similar goods any goods which are missing, lost or damaged or do not comply with their description or are defective or allow the customer credit for their invoice value or refund to the customer the invoice price of any such goods.

3. If the Company is liable in accordance with this condition in respect of only some goods the contract shall remain in full force and effect in respect of the other goods in the contract.

4. The Company shall not be liable in any circumstances whatsoever for goods which are lost or damaged in transit and all claims shall be made against the carrier.

5. There are no circumstances in which the liability of the Company to the customer under this condition shall exceed the invoice value of the goods.

### 11. GENERAL

1. If the customer fails to make any payment or otherwise defaults in any of its obligations under the contract or any other contract or agreement with the Company or becomes insolvent, has a receiver appointed or is wound up (voluntarily or compulsorily) or the Company bona fide believes that any such event may occur; then the Company may suspend or terminate the supply of any goods and shall be entitled to forfeit any monies already paid.

2. The contract and its subject matter are confidential and shall not be disclosed or used for any unauthorised purpose.

3. The contract cannot be cancelled without the written agreement of the Company and upon payment by the customer to the Company of 25% of the total contract price, or such other sum expressly agreed in writing by the Company.

4. The contract shall be governed by the English Law and the customer consents to the exclusive jurisdiction of the English Courts in matters regarding the contract except to the extent that the Company invokes the jurisdiction of the Courts of any other country.

5. Any notice to be given under this contract shall be in writing or sent by facsimile transmission or forwarded by recorded delivery post to the receiving party at its business address or last known business address and shall be deemed to have been given on the date of the facsimile transmission or on the day following that on which the notice was posted.

### 12. FORCE MAJEURE

The Company shall not be liable for any failure in the performance of any of its obligations under the contract caused by factors outside its control.

### 13. EXPORTS

1. For the avoidance of doubt all the above terms and conditions apply to orders from customers outside the United Kingdom as well as those from within the United Kingdom.

2. The provisions of this condition apply to customers from outside the United Kingdom in addition to the remaining conditions but if any inconsistency arises between this condition and any others, for customers from outside the United Kingdom the provisions of this condition shall prevail.

3. Orders from customers outside the United Kingdom must be covered by an irrevocable letter of credit to cover the purchase price and any other additional costs and charges whatsoever, confirmed by a London clearing Bank unless other arrangements have been made and agreed between the Company and the customer in writing.

4. The Company's prices do not include F.O.B. charges or any delivery charges to docks, airports or otherwise to the customer's order.

5. Any obligation on the Company to carry or arrange for the carriage of any goods to any points outside the Company's premises must be agreed with the customer in writing, will be entirely at the customer's expense and will be invoiced to the customer by the Company separately and at cost price.

6. Insurance is only effected on the customer's specific instructions and to the customer's specific requirements, notified to the Company in writing, and entirely at the customer's expense. However, the Company is under no obligation to accept any instructions to effect any Insurance cover.

7. The notification periods specified in clause 8 shall be extended in each case by seven days for customers from outside the United Kingdom.

8. Unless otherwise agreed in writing by the Company before the contract is made it is the responsibility of the customer to make provision for the delivery of goods outside the Company's premises and to provide all necessary instructions, documents, licences, consents, authorisations, permissions and insurance required for the acceptance of the goods from the Company on the due date.

Authorised distributor

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**In Australia:**

For customer service, call 1300-735-292  
To email an order, [ordersau@thermofisher.com](mailto:ordersau@thermofisher.com)  
To order online: [thermofisher.com](http://thermofisher.com)

**In New Zealand:**

For customer service, call 0800-933-966  
To email an order, [ordersnz@thermofisher.com](mailto:ordersnz@thermofisher.com)  
To order online: [thermofisher.com](http://thermofisher.com)

**ThermoFisher**  
S C I E N T I F I C