



Sterilising boxes, polypropylene



- Unique cylindrical box for pipette sterilisation
- Autoclavable at 121°C
- The patented telescopic thread closure enables the box length to be altered from 280 to 500mm

Product Code	O.D. (mm)	Length (mm)	Pack qty.
PWP050	65	280-500	1



Stirring bars, magnetic, PTFE



- For the stirring of liquids on magnetic stirrers and hot plate stirrers
- Strong alloy magnets sheathed in pure white inert PTFE
- Supplied in polarity aligned packs to ensure maximum coupling strength
- Resistant to virtually all chemical attack and temperatures up to 260°C

Stirrer bars, magnetic, cylindrical, PTFE

- Plain design with rounded ends, suitable for a wide range of flat bottomed containers

Product Code	Length (mm)	O.D. (mm)	Pack qty.
SWN652	6	3	2
SWN654	8	3	2
SWN656	12	4.5	2
SWN658	15	4.5	2
SWN660	20	6	2
SWN662	25	6	2
SWN664	30	6	2
SWN666	35	6	2
SWN668	40	8	2
SWN670	45	8	2
SWN672	50	8	2
SWN674	60	9	2
SWN676	70	9.5	2
SWN678	80	9.5	2



Stirrer bars, magnetic, micro, PTFE



- For use in small vessels, e.g. test tubes, vials etc.

Product Code	Length (mm)	O.D. (mm)	Pack qty.
SWN950	7	2	2
SWN952	8	1.5	2
SWN954	10	3	2
SWN956	13	3	2



Stirrer bars, magnetic, octagonal, PTFE



- With central pivot ring
- Shape gives increased turbulence at low speeds

Product Code	Length (mm)	O.D. (mm)	Pack qty.
SWN708	13	8	2
SWN710	25	8	2
SWN712	38	8	2
SWN714	51	10	2
SWN716	75	12	2



Stirrer bars, magnetic, oval, PTFE



- For efficient stirring in round bottomed flasks

Product Code	Length (mm)	O.D. (mm)	Pack qty.
SWN520	20	10	2
SWN522	25	12	2
SWN524	30	16	2
SWN525	35	16	2
SWN526	40	20	2
SWN528	50	20	2





Stirrer bars, magnetic, pivot ring, PTFE



- Central pivot ring ensures efficient spinning even on curved or uneven bases

Product Code	Length (mm)	O.D. (mm)	Pack qty.
SWN500	8	3	2
SWN501	15	4.5	2
SWN502	12	4.5	2
SWN503	20	6	2
SWN504	25	6	2
SWN505	35	6	2
SWN506	45	8	2
SWN507	40	8	2
SWN508	60	9.5	2
SWN509	50	8	2
SWN510	70	9.5	2
SWN511	30	6	2



Stirrer Bars, magnetic, triangular, PTFE



- Spins well giving the best possible mixing action
- Ideal for mixing difficult solutions e.g. dissolving solvents or mixing sediments

Product Code	Length (mm)	O.D. (mm)	Pack qty.
SWN532	12	6	2
SWN534	25	8	2
SWN536	35	9	2
SWN538	50	12	2



Stirrer bars, magnetic, set, PTFE



- Useful assortment of the most popular types and sizes of PTFE magnetic stirrer bars
- Supplied in a red polypropylene compartmented box with opaque natural lid
- Contains:
 - Pivot ring: two each of 12 x 4.5 25 x 6 45 x 8 and 60 x 9.5mm
 - Oval: two each of 20 x 10, 25 x 12, 35 x 16 and 50 x 20mm
 - Micro: three each of 7 x 2 and 10 x 3mm

Product Code	Description	Pack qty.
SWN515	Set of 22 PTFE stirrer bars	1

i *Stirring bars only are autoclavable. (Do not autoclave in box)*



Stirrer bar, retrievers, PTFE coated



- Magnet permanently embedded in PTFE rod
- Ideal for retrieving magnetic stirrer bars from particularly sensitive or corrosive liquids

Product Code	Length (mm)	Pack qty.
SWN564	250	1
SWN566	350	1





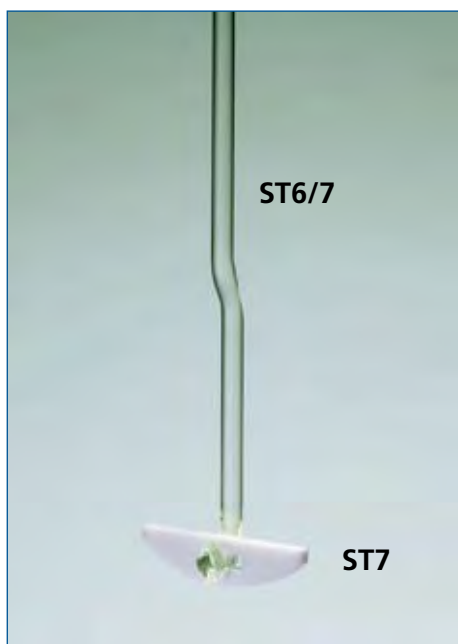
Stirrer shaft, anchor



- Designed for low speed operation
- Ideal for use with Quickfit® wide-neck reaction flasks FR:F series
- Paddle closely follows the contour of the flask walls
- Useful where the build-up of solid material on the walls is likely
- The minimum neck size required for the stirrer is 100mm

Product Code	Approx shaft diam. (mm)	Approx shaft length mm	Blade width mm	Pack qty.
ST1/5	6	450	90	1
ST1/6	6	600	135	1
ST1/8	11	750	135	1

i Paddle ST1/5 is suitable for use with Quickfit® reaction flasks FR700F and FR1LF. Paddles ST1/6 and ST1/8 are for larger capacity vessels. Reaction flasks are detailed on page 151.



Stirrer, PTFE blade



- PTFE construction for maximum resistance to chemical attack
- PTFE blades can be pivoted on the glass shaft to allow passage through small apertures e.g. necks and sockets of Quickfit® flasks
- Blades are detachable for cleaning and replacement purposes
- Useful for sweeping close to the vessel walls as they will not cause scratching
- For use with glass stirrer shaft detailed below

Product Code	Blade width mm	Min. neck size for stirrer	Pack qty.
ST7/2	52	19/26 Socket	5
ST7/3	76	24/29 Socket	5
ST7/3L	76	24/29 Socket	5

i These PTFE bladed stirrers may be used at temperatures up to 250°C.

Stirrer shaft for PTFE blade

- Pyrex® borosilicate glass construction
- For use with ST7: series PTFE blades

Product Code	To fit PTFE blade	Approx shaft diam. (mm)	Approx shaft length mm	Pack qty.
ST6/7	ST7/2 & ST7/3	6	450	1
ST11/5	ST7/3L	11	750	1



Stirrer shaft, fixed paddle



- Ideal for use with large capacity flasks or Quickfit® wide-neck reaction vessels
- Design of pitched paddle helps to reduce the overall power consumption

Product Code	Approx shaft diam. (mm)	Approx shaft length mm	Min. neck size for stirrer	Blade width mm	Pack qty.
ST1/2	6	610	55/44 Socket	50	1




Stirrer guides



- Designed to reduce excessive 'whip' in glass stirrer shafts which can lead to breakage
- A PTFE bearing is fitted to the bottom of guides ST2/33C/SC and ST2/44C/SC for additional support
- Features a side-arm with detachable plastic connector for the introduction of gases or connection to a vacuum supply

Product Code	To fit stirrer shaft mm	Socket size	Cone size	Approx. stem length mm	Pack qty.
ST2/2/SC	6	19/26	19/26	200	1
ST2/33C/SC	11	24/29	24/29	300	1
ST2/44C/SC	11	29/32	29/32	300	1

 Spare PTFE bearings are available - Item code ST2C.





Stirrer glands, glass



- Used for introducing stirrer paddles into Quickfit® flasks and vessels
- Provides a vapour-tight seal between paddle and flask
- Holds a vacuum down to 0.1 torr (13.3Pa)
- Comprises parallel ground glass sleeve with cup to accept a suitable lubricant (see notes)
- Supplied complete with screwcaps rubber rings and PTFE washers

Product Code	To fit stirrer shaft mm	Cone size	Thread size	Pack qty.
ST20/2	6	19/26	13	1
ST20/3	11	24/29	24	1
ST20/4	11	29/32	24	1

Instructions for use

Lubricant:

The lubricant may be any relatively non-volatile compound suitable for use with the reaction in hand, provided its viscosity does not exceed that of glycerol. Typical lubricants are spindle oil and liquid paraffin.

Speed:

The stirrer should not be run at speeds in excess of 700rpm. When lubricants of high viscosity are used, rotation should commence at approximately 100rpm and should be gradually increased to maximum speed over 10 minutes.

Assembly:

Attach the stirrer to the sleeve of the gland by tightening the plastic screwcap. The gland will be damaged if rotated when dry and the ground surfaces must be smeared with lubricant before assembly. Care must be taken to ensure that the ground surfaces are clean and free from dust or grit before use.



Stirrer glands, PTFE



- 'Stuffing box' glands available with either brass or PTFE cones
- Provides a seal to a stirrer shaft by the adjustable compression of rubber 'O' rings and felt washers impregnated with lubricant
- Glands ST4/2 and ST4/2F have integral drive pulleys

Product Code	Description	Material (cone portion)	To fit stirrer shaft mm	Pulley diam. mm	Cone size	Pack qty.
ST4/2	Gland with pulley	Brass	6	35	19/26	1
ST4/2F	Gland with pulley	PTFE	6	23	19/26	1
ST3/2F	Gland only	PTFE	6	35	19/26	1

Spares for PTFE stirrer glands

Product Code	Description	To fit stirrer shaft mm	Pack qty.
ST4R	Spare 'O' ring	6	10
ST4W	Spare feltwasher	6	10



Rods, stirring, glass

MBL®

- Pyrex® borosilicate glass rods for general stirring applications
- With rounded ends for extra safety and to minimise scratching

Product Code	Diam. mm	Length (mm)	Pack qty.
SRF380	6	300	10



When stirring, avoid the end of the rod abrading the inner surface of glass vessels. Scratches seriously impair the strength of glassware and affected items should not be used.



Rods, stirring, glass, double ended

MBL®

- Manufactured from Pyrex® borosilicate glass rod
- With rounded button and paddle ends for extra safety and to minimise scratching
- Button end is useful for crushing clumped powder and solids
- Paddle end helps to circulate sediment when stirring

Product Code	Diam. mm	Length (mm)	Pack qty.
SRF384	6	200	10
SRF386	6	300	10



When stirring, avoid the end of the rod abrading the inner surface of glass vessels. Scratches seriously impair the strength of glassware and affected items should not be used.



Rods, stirring, PTFE coated



- Suitable for stirring even the most corrosive liquids
- Will withstand 260°C
- PTFE covered with plain ends
- 6mm diameter

Product Code	Length (mm)	Pack qty.
SWN542	150	1
SWN544	200	1
SWN546	250	1
SWN548	300	1
SWN550	350	1
SWN552	400	1

