SUPAPORE TC Pleated Membrane Filter Capsules

SupaPore TC microfiltration membrane capsules are fully disposable filter units for small and medium scale air and gas processing applications. They are readyto-use, avoiding the need to purchase or maintain filter housings and are easy to change-out with minimum downtime. The filtration unit is permanently enclosed inside the capsule shell to minimise postuse cleaning and operator exposure to process fluids.

SupaPore TC capsules are available with PTFE membranes and offered with a range of inlet/outlet connections to suit most process systems.

The filters are supplied in a wide range of lengths from 50mm to 750mm long and two diameters of 75mm and 90mm.

Product Features

- Thermally bonded and adhesive free construction
- Capsules are non-pyrogenic and can be autoclaved multiple times
- Materials meet US FDA CFR Title 21 requirements
- Available in a range of grades and pore sizes
- Manufactured in clean room facilities under ISO quality system



SupaPore TC Capsules - PTFE

- Naturally hydrophobic PTFE
 membrane
- 100% polypropylene hardware
- Available in a range of Absolute removal ratings
- Integrity testable

Features and Benefits

- Fully disposable unit avoids the need to purchase a filter housing
- Ready to use for easy filter change-out and minimum downtime
- Enclosed filter unit minimises operator exposure and post-use cleaning
- Wide range of inlet and outlet connections available so suitable for most process systems
- All capsules feature Luer-lok vent and drain
- All polymer construction
- Full product validation guide available

Industries and Applications

- Development and pilot plant applications
- Equipment requiring filtration of air and gas
- Venting and process air filtration
- Manufacturers of small or medium size batches of products where batch to batch cleaning is an issue
- Multi-purpose plants where flexibility is needed



SupaPore TC Technical Data

Dimensions Outside Diameter:

90mm (Junior capsule 75mm)

Filter Module Length	Nominal Capsule Length (Hose Barb connections)	Typical Surface Area	Capsule Volume (Litre)	
Junior 50mm (2")	117mm	0.05m ²	0.11	
50mm (2")	147mm	0.13m ²	0.23	
125mm (5")	220mm	0.36m ²	0.57	
250mm (10")	339mm	0.76m ²	1.0	
500mm (20")	582mm	1.52m ²	1.9	
750mm (30")	824mm	2.29m ²	2.8	

Sterilisation and Sanitisation *Applies to non gamma sterilised option only Autoclave:

Hot Water:

135°C for 30 mins (25 cycles) Up to 90°C

Maximum Operating Conditions

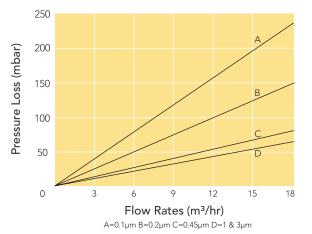
Maximum Temperature:	43°C @ 2.0 Bar
Maximum Pressure:	5.5 Bar @ 20°C (Liquid)
	4.1 Bar @ 20°C (Gas)
Max Differential Pressure:	3.4 Bar @ 20°C (Forward Flow)
	2.7 Bar @ 20°C (Reverse Flow)

Recommended change-out differential pressure: 2.5 Bar

Standard Materials of Construction

Filter media:	Polytetrafluoroethylene (PTFE)
Media Support:	Polypropylene
Assembly:	Polypropylene

Flow Rates Air (2" Capsule - 0 bar Pressure)



Integrity Test Specification, B grade only

Capsules	Test Pressure		Maxium Water Intrusion
Capsules	Bar	PSI	(ml/10 min)
2" Junior	2.5	36	2
2"	2.5	36	5
5"	2.5	36	9
10"	2.5	36	16
20 "	2.5	36	32
30"	2.5	36	46

*The above values refer to a single 0.2 micron capsule tested in water at 20°C.

Ordering Guide

MediaGradeMicron RatingLengthInletOutletBrandingTC - PTFEG - General B - Biological001 - 0.1µm 002 - 0.2 004 - 0.45 010 - 1.0 030 - 3.0Junior J2 - 117Junior Capsule H - 3mm Hosebarb Straight J - 12mm Hosebarb Straight B - 80000J. A - AmazonMediaOUT - 0, 030 - 3.0001 - 0, 030 - 3.0Junior J2 - 117Junior Capsule H - 3mm Hosebarb Straight K - ½" Sanitary Flange BS4825 L - Luer-LokJunior Capsule H - 3mm Hosebarb Straight Straight K - ½" Sanitary Flange BS4825 L - Luer-LokA - AmazonMediaStandard 02 - 147mm 05 - 220 09 - 339Standard Capsule A - 8.5-16mm Hosebarb Tapered B - ¾" NPTM C - ¾" NPTMStandard Capsule A - 8.5-16mm Hosebarb Tapered B - ¾" NPTM C - ¾" NPTFMediaStandard 05 - 220 09 - 339Standard Capsule A - 8.5-16mm Hosebarb Tapered D - 3/a" NPTF E - ½" NPTMStandard Capsule A - 8.5-16mm Hosebarb Tapered D - 3/a" NPTF E - ½" NPTM	16 TC	G	001 -	09	А	А	А
B - Biological 002 - 0.2 004 - 0.45 010 - 1.0 030 - 3.0 H - 3mm Hosebarb H - 3mm Hosebarb Straight I - 6mm Hosebarb I - 6mm Hosebarb Straight J - 12mm Hosebarb J - 12mm Hosebarb Straight K - ½" Sanitary Flange K - ½" Sanitary Flange BS4825 L - Luer-Lok L - Luer-Lok Standard 02 - 147mm 05 - 220 09 - 339 B - ¾" NPTF C - ¾" NPTF F S - ¾" NPTF C - ¾" NPTF F B - ¾" NPTF F C - ¾" NPTF F B - ¾" NPTF F C - ½" NPTM F C - ¾" NPTF F C - ½" NPTM C C - ½"	Media	Grade		Length	Inlet	Outlet	Branding
G - 1" Sanitary Flange BS4825 BS4825 BS4825	TC - PTFE		002 - 0.2 004 - 0.45 010 - 1.0	J2 - 117 Standard 02 - 147mm 05 - 220 09 - 339 20 - 582	 H - 3mm Hosebarb Straight I - 6mm Hosebarb Straight J - 12mm Hosebarb Straight K - ½" Sanitary Flange BS4825 L - Luer-Lok Standard Capsule A - 8.5-16mm Hosebarb Tapered B - ¼" NPTM C - ¼" NPTF D - ¾s" NPTF E - ½" NPTF G - 1" Sanitary Flange 	 H - 3mm Hosebarb Straight I - 6mm Hosebarb Straight J - 12mm Hosebarb Straight K - ½" Sanitary Flange BS4825 L - Luer-Lok Standard Capsule A - 8.5-16mm Hosebarb Tapered B - ¼" NPTM C - ¼" NPTF D - ¾" NPTF E - ½" NPTF G - 1" Sanitary Flange 	A - Amazon

AMAZON FILTERS LTD.

Albany Park Estate, Camberley, Surrey, GU16 7PG, ENGLAND

Tel: +44 (0) 1276 670 600 Email: sales@amazonfilters.co.uk Web: www.amazonfilters.com

SupaPore is a trademark of Amazon Filters Ltd. AMAZON FILTERS LTD. reserve the right to change specification without prior notice, as part of their continuous product development programme