# 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

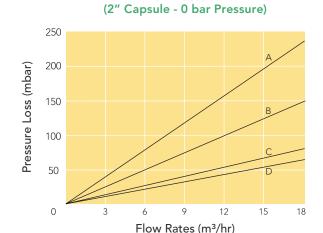


### SupaPore TC Technical Data

#### **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 <sup>2</sup>	0.23
125mm (5")	220mm	0.36m <sup>2</sup>	0.57
250mm (10")	339mm	0.76m²	1.0
500mm (20")	582mm	1.52m²	1.9
750mm (30")	824mm	2.29m <sup>2</sup>	2.8



Flow Rates Air

A=0.1μm B=0.2μm C=0.45μm D=1 & 3μm

#### Sterilisation and Sanitisation

Autoclave: 135°C for 30 mins (25 cycles)

Hot Water: 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

#### Integrity Test Specification, B grade only

Capsules	Test Pressure		Maxium Water Intrusion	
	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.

To convert maximum Water Intrusion Flow values to maximum Water Flow values divide the WIT flow rate by 3.5. The test pressure remains the same.

### Ordering Guide

16TC	G	001 -	09	A	Α	Α		
Media	Grade	Micron Rating	Length	Inlet	Outlet	Branding		
TC - PTFE	G - General B - Biological	001 - 0.1μm 002 - 0.2 004 - 0.45 010 - 1.0 030 - 3.0	Junior J2 - 117 Standard 02 - 147mm 05 - 220 09 - 339 20 - 582 30 - 824	Junior Capsule 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 - 3/8" NPTF E - ½" NPTM F - ½" NPTF G - 1" Sanitary Flange BS4825	Junior Capsule 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 - 3/8" NPTF E - ½" NPTM F - ½" NPTF G - 1" Sanitary Flange BS4825	A - Amazon		
Example: 16TCB002-20GAA = PTFE media, 0.2μm, 20" long, Sanitary Flange inlet and Hosebarb outlet.								

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