

# SUPAPORE CAPSULES

AMAZON

## PLEATED MEMBRANE FILTER CAPSULES



**SUPAPORE** microfiltration membrane capsules are fully disposable filter units for small and medium scale liquid and gas processing applications. They are ready-to-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 post-use cleaning and operator exposure to process fluids.

**SUPAPORE** capsules are available with pleated PES (polyethersulphone) or 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.

### **SUPAPORE VC** Capsules

- Naturally hydrophilic PES membrane
- Low protein binding
- 100% polypropylene hardware
- Available in a range of Absolute removal ratings
- Integrity testable

### **SUPAPORE TC** Capsules

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

### **Product Features**

- Thermally bonded and adhesive free construction
- Capsules are non-pyrogenic and can be autoclaved
- 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 CAPSULES 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 polymer construction
- Full product validation guide available

SUPAPORE CAPSULES

## TECHNICAL DATA

### Dimensions

Outside Diameter: 90mm

Filter Module Length	Nominal Capsule Length (Hose Barb connections)	Typical Surface Area	Capsule Volume (Litre)
50mm (2")	127mm	0.09m <sup>2</sup>	0.23
125mm (5")	220mm	0.28m <sup>2</sup>	0.57
250mm (10")	339mm	0.65 - 0.70m <sup>2</sup>	1.0
500mm (20")	582mm	1.3 - 1.40m <sup>2</sup>	1.9
750mm (30")	824mm	1.95 - 2.10m <sup>2</sup>	2.8

### Sterilisation and Sanitisation

Autoclave: 127°C for 20 mins (multiple 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)

### Materials of Construction

Filter media: V - Polyethersulphone (PES) or  
T - Polytetrafluoroethylene (PTFE)

Media Support : Polypropylene

Capsule Assembly: Polypropylene

Vent and Drain Valves: Polypropylene Luer-Lok

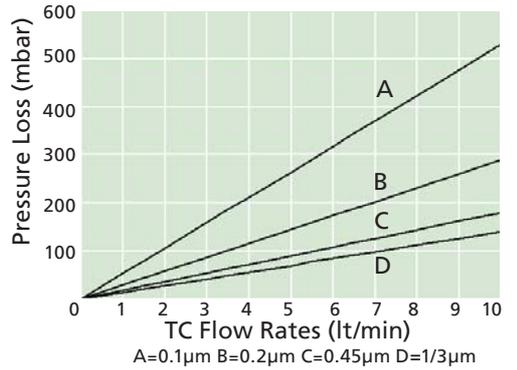
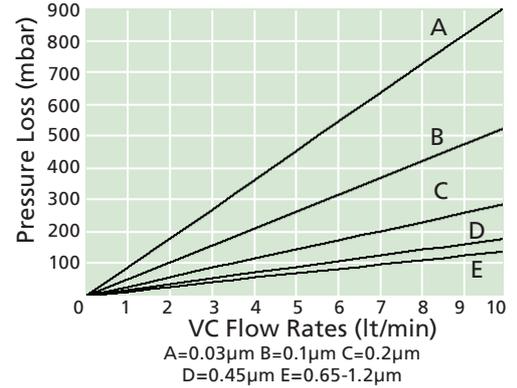
### Bacterial Challenge

16VCB002: LRV>10<sup>11</sup> (Brevundimonas diminuta (ATCC 19146))

16VCB004: LRV>10<sup>8</sup> (Serratia Marcescens (ATCC 14756))

Validation guide and Integrity test data available on request. All SUPAPORE capsules are manufactured under strict control with batch number identification, giving full traceability on all components.

Flow Rates For Water (2" Capsule)



## ORDERING GUIDE

MEDIA	GRADE	MICRON RATING	LENGTH	INLET	OUTLET	OPTIONS
V - Polyethersulphone T - PTFE	G - General B - Biological	PES 00A - 0.03µm 001 - 0.1 002 - 0.2 004 - 0.45 006 - 0.65 008 - 0.8 010 - 1.0  PTFE 001 - 0.1µm 002 - 0.2 004 - 0.45 010 - 1.0 030 - 3.0	02 - 127mm 05 - 220 09 - 339 20 - 582 30 - 824	A - 8.5-16mm Hosebarb B - 1/4" NPT 'M' C - 1/4" NPT 'F' D - 3/8" NPT 'F' E - 1/2" NPT 'M' F - 1/2" NPT 'F' G - 1 1/2" Sanitary Flange	A - 8.5-16mm Hosebarb B - 1/4" NPT 'M' C - 1/4" NPT 'F' D - 3/8" NPT 'F' E - 1/2" NPT 'M' F - 1/2" NPT 'F' G - 1 1/2" Sanitary Flange	

Example: 16VCB002-20GAA = PES media, 0.2µm, 20" long, Sanitary Flange inlet and Hosebarb outlet.

## INDUSTRIES AND APPLICATIONS

- Development and pilot plant applications
- Equipment requiring filtration e.g. laboratory water treatment systems, printing equipment etc
- Hospital critical water applications e.g. endoscope washing machines, dialysis equipment
- 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

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