

SUPAPORE TP



PLEATED MEMBRANE FILTER CARTRIDGE



SUPAPORE TP Microfiltration cartridges have been designed specifically for use in a wide range of aggressive gas and liquid processing applications. Its naturally hydrophobic PTFE membrane makes this cartridge an ideal choice for systems requiring excellent compatibility, reliability and a consistently high quality filtrate.

Product Features

SUPAPORE TP cartridges feature:

- A naturally hydrophobic PTFE membrane rated at 0.2µm in liquids and 0.01µm in gases
- Polypropylene support
- Minimal fibre migration
- Wide chemical compatibility
- Validation by bacterial and aerosolised bacteriophage challenge

All cartridges are thermally bonded and adhesive free. Each unit is pre-flushed with ultra-pure water and integrity tested before final assembly*1.

- Can be steam sterilised
- Sanitisable
- Meet current US FDA CFR Title 21 requirements
- Fully integrity testable by Water Intrusion, Bubble Point or Diffusion Flow test*1
- All B grade modules are integrity tested during manufacture

Available in a wide range of grades & absolute rated pore sizes:

- 0.1, 0.2, 0.45, 1.0µm and solvent grade
- General Grade
- Biological Grade

Suitable for most sanitisation regimes including steaming, autoclaving, hot-water flush and most common sanitising agents.

(Note: Steaming, autoclaving and hot water sanitisation must use the glass filled end-cap option)

Amazon Filters manufactures a comprehensive range of filter housings for **SUPAPORE TP** cartridges including the industrial **50** and **60 Series** and the **70 Series** for hygienic applications. Please consult our Sales Office for further details on the full range.



SUPAPORE TP FEATURES AND BENEFITS

- Fully Integrity Testable - Water Intrusion, Bubble Point and Diffusional Flow values provided for all biological grade pore sizes*1
- Validated*2 removal ratings for consistent and reliable performance
- Feature naturally hydrophobic PTFE membrane and polypropylene hardware
- Thermal bonding process eliminates adhesives and ensures minimal extractables
- Identification mark on every cartridge
- Full product guide available

*1 B grade only

*2 See product guides for further details stating test method and rated efficiencies

TECHNICAL DATA

Dimensions

Outside Diameter: 70mm
Typical Surface Area: 0.73-0.80m² (Per 10")
Length: See ordering guide

Sterilisation and Sanitisation*3

Steam or Autoclave:	136°C for 30 mins (100 cycles)
Hot Water:	90°C for 30 mins (0.2 bar Δp max)

*³Applies to single open end cartridges only. For all steaming and hot water applications, the Glass Filled end cap option must be used.

Maximum Operating Conditions

Temperature: 80°C

Recommended Maximum Differential Pressure:

Forward Flow: 5.0 bar @ 20°C

Reverse Flow 2.1 bar @ 20°C

Product validation guide available on request. All **SUPAPORE TP** cartridges are manufactured under strict control with batch number identification, giving full traceability on all components.

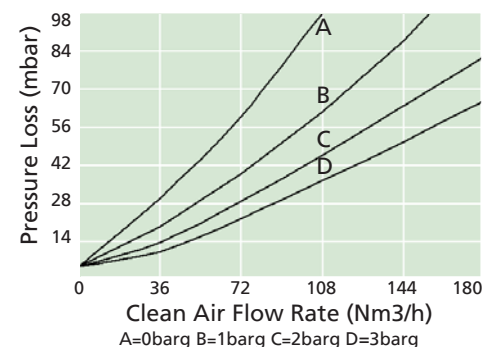
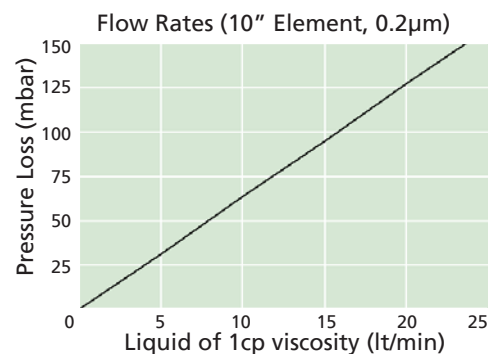
Materials of Construction

Filter Media:	PTFE
Media Support:	Polypropylene (PP)
Cage, Core & End Caps:	Polypropylene (PP)

Integrity Test Specification

B Grade

Micron Rating	Bubble Point In 60/40 IPA/Water	Diffusion Flow (cc/ min/10") In 60/40 IPA/Water
0.10µm	≥ 1620mbar (23.5 psi)	≤ 10 @ 1000mbar
0.22µm	≥ 1080mbar (15.7 psi)	≤ 10 @ 800mbar
0.45µm	≥ 630mbar (9.1 psi)	≤ 10 @ 400mbar



ORDERING GUIDE

16 ○ ○ ○○○○ - ○○ ○ ○ **A** ○

MEDIA	GRADE	MICRON RATING	LENGTH	CONNECTIONS	SEAL	OPTIONS
TP - PTFE / Polypropylene	B - Biological G - General	001 - 0.10µm 002 - 0.20 004 - 0.45 010 - 1.0 00P - Solvent Grade	05 - 125mm 09 - 249 20 - 496 30 - 744 40 - 991	0 - DOE A - Code A B - Code B ^{*4} S - Code S 2 - Code 2 3 - Code 3 6 - Code 6 7 - Code 7 8 - Code 8 9 - Code 9	B - Buna E - EPDM F - FEP/Silicone (SOE Only) G - FEP/Viton S - Silicone T - PTFE V - Viton	G - Glass filled PP end cap

Example: 16TPB002-203FA = PTFE media with polypropylene core, Biological Grade, 0.2µm, double length 20" long, Code 3 end fitting with FEP/silicone seal.

*⁴Code B - to fit Amazon **50 Series** housings only

INDUSTRIES AND APPLICATIONS

Food and Beverage	•	CO ₂ lines, Sterile vent for storage and transfer tanks
Pharmaceutical	•	Solvent filtration, polishing
Fine Chemicals	•	Polymers, Aggressive acids, Bases, Solvents, Ozonated DI Water
Electronics	•	Photoresists, Acids, Etch Solutions

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