

SUPAPORE THB



HIGH FLOW PLEATED MEMBRANE CARTRIDGE



SUPAPORE THB Microfiltration cartridges have been designed specifically for use in a wide range of aggressive gas and liquid processing applications where a strong construction with minimal pressure drop is required. Its naturally hydrophobic expanded PTFE membrane makes this cartridge an ideal choice for systems requiring excellent compatibility, low pressure drops and high flow rates.

Product Features

SUPAPORE THB cartridges feature:

- A naturally hydrophobic PTFE membrane rated at 0.2µm in liquids and 0.01µm in gases
- Large diameter core for higher flow rates
- Polypropylene and stainless steel 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.

- 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
- Modules are integrity tested during manufacture

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 stainless steel support ring end-cap option)

Amazon Filters manufactures a

comprehensive range of filter housings for

SUPAPORE THB 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 THB FEATURES AND BENEFITS

- Very high flow rates and low pressure drops
- Validated*² removal ratings for consistent and reliable performance
- Fully Integrity Testable - Water Intrusion, Bubble Point and Diffusional Flow values provided for all biological grade pore sizes*¹
- Features naturally hydrophobic expanded PTFE membrane and polypropylene/St.Steel hardware
- Thermal bonding process eliminates adhesives and ensures minimal extractables
- Identification mark on every cartridge
- Full product guide available

*¹See product guides for further details stating test method and rated efficiencies

TECHNICAL DATA

Dimensions

Outside Diameter: 70mm
Core Diameter: 41mm
Typical Surface Area: 0.80m² (Per 10")
Length: See ordering guide

Sterilisation and Sanitisation^{*3}

Steam or Autoclave: 135°C for 30 mins (250 cycles)
Hot Water: 90°C for 30 mins (0.2 bar Δp max)

^{*3} Applies to single open end cartridges only. For all steaming and hot water applications, the stainless steel end cap insert or 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

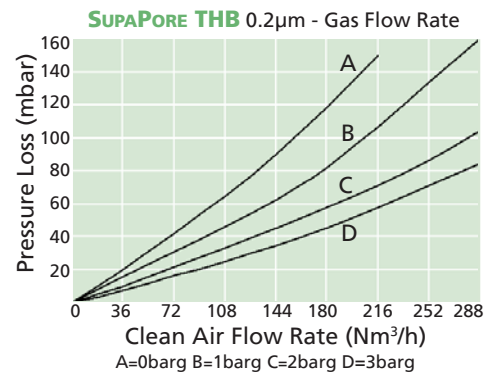
Product validation guide available on request. All **SUPAPORE PLUS** cartridges are manufactured under strict control with batch number identification, giving full traceability on all components.

Materials of Construction

Filter Media: PTFE
Media Support: Polypropylene (PP)
Cage and End Caps: Polypropylene (PP)
Core: 316 Stainless Steel

Integrity Test Specification

Minimum Bubble Point		Diffusional flow Test Pressure		Maximum Diffusional Flow	Water Intrusion Test pressure		Maximum Water Intrusion
bar	psi	bar	psi	ml/min	bar	psi	ml/10mins
1.08	15.7	0.8	11.6	10	2.5	36.3	13



ORDERING GUIDE

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MEDIA TH - PTFE / Polypropylene	GRADE B - Biological		MICRON RATING 002 - 0.20µm		LENGTH 05 - 125mm 09 - 249 20 - 496 30 - 744 40 - 991		CONNECTIONS 0 - DOE 2 - Code 2 7 - Code 7		SEAL B - Buna E - EPDM F - FEP/Silicone (SOE Only) S - Silicone T - PTFE V - Viton		OPTIONS S - St.St Insert

Example: 16THB002-207FAS = PTFE media with polypropylene support and St.Steel core, Biological Grade, 0.2µm, double length 20" long, Code 7 end fitting with FEP/Silicone seal and St.St Steel insert.

INDUSTRIES AND APPLICATIONS

- Food and Beverage** • CO₂ 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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