



Filtertechnik

FTECH-PORE THB

HIGH FLOW PLEATED MEMBRANE CARTRIDGE

Ftech-Pore 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

Ftech-Pore 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)

Filtertechnik Filters manufactures a comprehensive range of filter housings for Ftech-Pore THB cartridges including the industrial 50 and 60 Series and the 70 Series for hygienic applications.



Ftech-Pore 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

Technical data

Dimensions

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

Sterilisation and Sanitisation*1

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

*1 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.

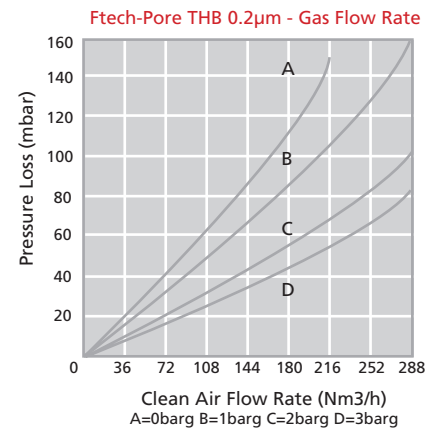
Maximum Operating Conditions

Temperature: 80°C
 Recommended Maximum Differential Pressure:
 Forward Flow: 5.0 bar @ 20°C

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

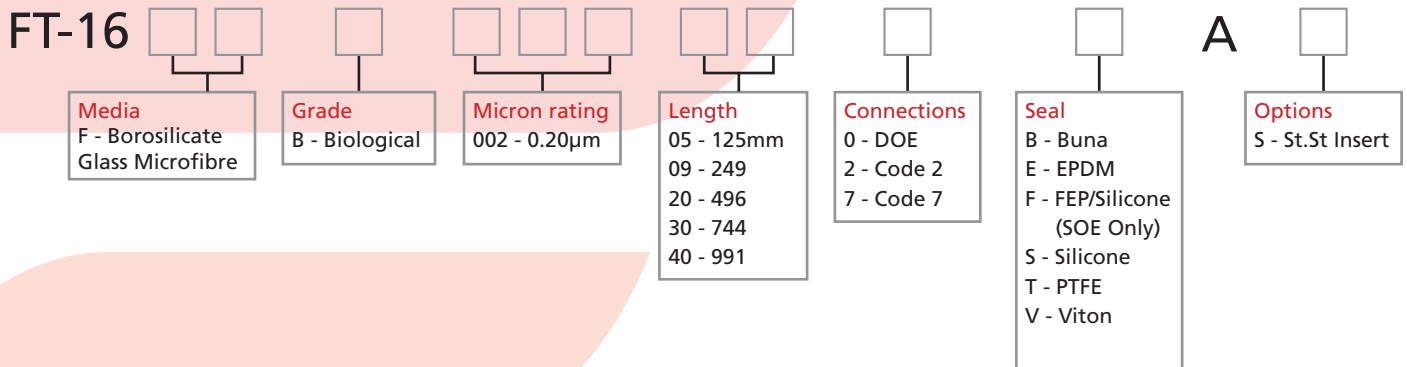
Materials of Construction

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



Minimum Bubble Point		Diffusional flow Test Pressure		Maximum Diffusional Flow		Water Intrusion Test pressure		Maximum Water Intrusion
bar	psi	bar	psi	bar	psi	bar	psi	ml/10mins
1.08		1.5		2.5		4.0		13

Ordering guide



Example: 16FPW00X-20ASA = Glass Microfibre media with Polypropylene hardware, Grade X, double length 20", code A connection with silicone seal.

*3 Code B - to fit Filtertechnik 50 Series housings only

*4 Junior Cartridges available in 5", Code J, Single Open Ended Only

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