

FTECH - PORE TP PLEATED MEMBRANE FILTER CARTRIDGE

Ftech-Pore 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

- A naturally hydrophobic PTFE membrane
- 0.2 μ m rated filter in liquids and 0.02 μ m in gases
- Polypropylene support
- Minimal fibre migration
- Wide chemical compatibility
- Validation by bacterial and aerosolised bacteriophage challenge
- Junior cartridge available

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
- 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, 1.0 μ m and solvent grade
- General Grade
- Biological Grade

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

Filtertechnik manufactures a comprehensive range of filter housings for FTECH-Pore 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.

(Note: Steaming, autoclaving and hot water sanitisation must use the Reinforced Polypropylene End Cap option)

Ftech-Pore TP FEATURES AND BENEFITS

- Fully Integrity Testable -Water Intrusion, Bubble Point and Diffusional Flow values provided for biological grade pore sizes*1
- Validated*2 removal ratings for consistent and reliable performance
- Naturally hydrophobic PTFE membrane and polypropylene hardware
- Thermal bonding process eliminates adhesives and ensures minimal extractables
- Identification mark on every cartridge
- Full product validation guide available
- All individual packing bags are anti-static
- Meets current US FDA CFR Title 21 requirements

*1B grade only *2 See product guides for further details stating test method and rated efficiencies



TECHNICAL DATA

Dimensions

	Standard 10"	Junior 5"
Outside Diameter:	71mm	56mm
Typical Surface Area:	0.75m ²	0.25m ²
Length:	See ordering guide	

Sterilisation and Sanitisation*

Steam or Autoclave: 1350C for > 150 hours

* Applies to single open end cartridges only. For all steaming and hot water applications, the Reinforced Polypropylene End Cap option must be used.

Maximum Operating Conditions

Temperature: 80°C (for intermittent exposure to air)
60°C (for continuous exposure to air)

Recommended Maximum Differential Pressure:

Forward flow:: 5.0 bar @ 20°C
Reverse Flow: 3.0 bar @ 20°C

Recommended change-out differential pressure 2.5 bar

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

Standard Materials of Construction

Filter Media: Polytetrafluoroethylene (PTFE)
Media support: Polypropylene
End Caps: Polypropylene
Cages/Core: Polypropylene Polypropylene

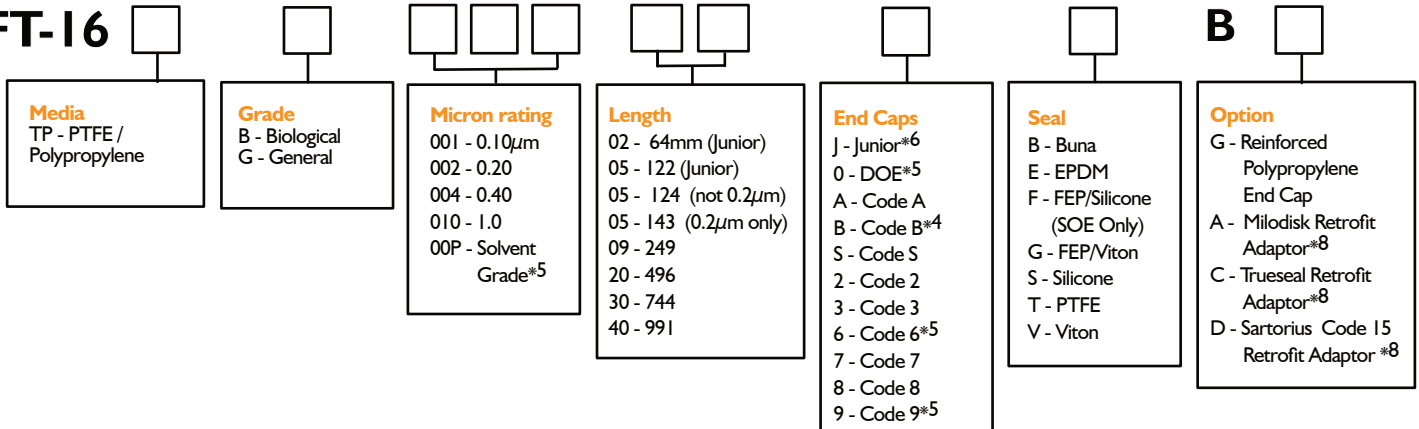
Integrity Test Specification

B Grade

Micron Rating	Bubble Point In 60/40 IPA/water	Diffusion Flow (cc/min//10") In 60/40 IPA/water	Water Intrusion Flow (cc/10mins/10")
0.10µm	≥ 1500mbar (22psi)	-	-
0.22µm	≥ 1000mbar (14.5psi)	≤ 11 @ 700 mbar	≤ 13 @ 2500mbar

Ordering Guide

FT-16



Example: 16TPB002-203FA = PTFE media with polypropylene core, Biological Grade, 0.02µm, double length 20" long, Code 3 end fitting with FEP/Silicone seal.

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

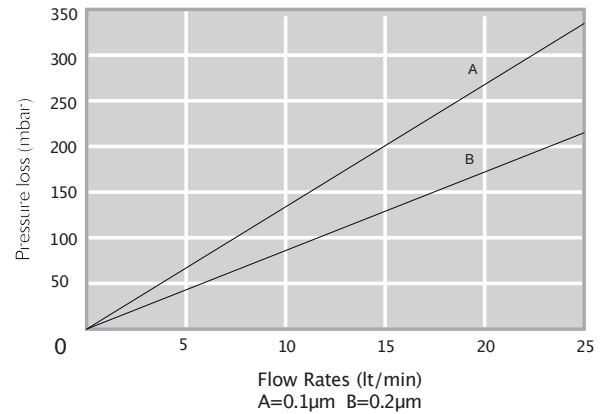
*5 TPG Only

*6 Junior cartridge only available in 2" & 5", 0.2µm, Code J, Single open ended only

*7 Standard on Junior Cartridges

*8 Junior filters only

Water Flow Rates



Air Flow Rates

