



Filtertechnik

# FTECH-PORE TT

## PLEATED MEMBRANE CARTRIDGE

Ftech-Pore TT Microfiltration cartridges have been specifically designed for use in corrosive gases and liquid processing applications. A naturally highly hydrophobic PTFE membrane and fluoropolymer structure makes this the cartridge of choice where high resistance to aggressive fluids is required.

### Product Features

Ftech-Pore TT cartridges feature:

- A naturally hydrophobic PTFE membrane rated at 0.2µm in liquids and 0.01µm in gases
- FEP/PFA hardware
- Extremely low flush requirements in high purity applications
- Excellent chemical compatibility
- Low protein binding characteristics
- Materials meet the requirements of 21CFR Part 177 and current USP Plastics Class VI - 121°C and ISO10993 equivalents
- Fully integrity testable by bubble point or diffusion flow test
- Operational temperature up to 150°C

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

They are available in a range of absolute pore sizes:

- 0.05µm
- 0.10µm
- 0.20µm
- 0.45µm
- 1.0µm

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

Filtertechnik Filters manufactures a comprehensive range of filter housings for Ftech-Pore TT 50 and 60 Series and the 70 Series for hygienic applications. Please consult our Sales Office for further details on the full range. Fluoro-polymer lined housings are available for arduous applications that match the chemical resistance of the Ftech-Pore TT cartridge.



## Ftech-Pore TT FEATURES AND BENEFITS

- Full Fluoropolymer construction results in a cartridge that withstands long term exposure to Ozonated water
- Validated\*1 removal ratings for consistent and reliable performance
- Capable of high temperature operation for extended periods
- High chemical resistance to most solvents
- Very high resistance to most oxidising agents
- Resistance to virtually all acids and alkalis
- Full Product guide available

## Technical data

### Dimensions

Outside Diameter: 70mm  
 Typical Surface Area: 0.63m<sup>2</sup> (Per 10")  
 Length: See ordering guide

### Maximum Operating Conditions

Temperature: 150°C  
 Recommended Maximum Differential Pressure:  
 Forward Flow: 5.5 Bar @ 24°C  
 2.0 Bar @ 125°C  
 1.0 Bar @ 150°C  
 Reverse Flow: 3.4 Bar @ 24°C  
 1.0 Bar @ 121°C

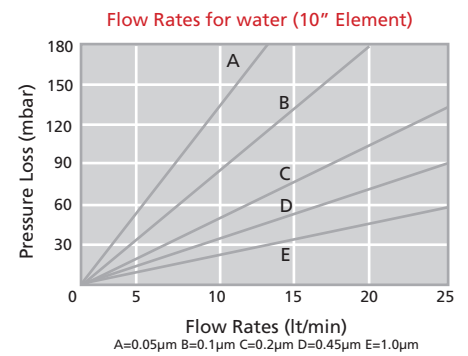
Product validation guide available on request. All Ftech-Pore TT cartridges are manufactured under strict control with batch number identification, giving full traceability on all components.

### Materials of Construction

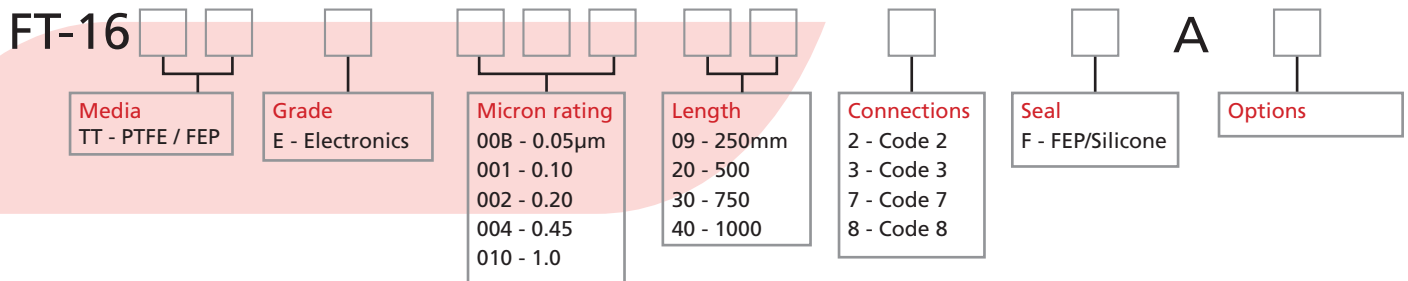
Filter Media: PTFE  
 Media Support: FEP  
 Cage, Core & End Caps: PFA

### Integrity Test Specification

Micron Rating	Bubble Point In 60/40 IPA/Water	Diffusion Flow(cc/min/10") In 60/40 IPA/Water
0.20µm	900mBar	8 @ 690mBar
0.45µm	500mBar	-



## Ordering guide



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

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

## Industries and applications

- **Food and Beverage:** Ozonated water
- **Pharmaceutical:** Ozonated water, solvent filtration, high temperature air/gas
- **Fine Chemicals:** Ozonated water, solvent filtration, high temperature air/gas, acids
- **Electronics:** Ozonated and high temperature UPW, photolithography chemicals