

FTECH-PORE TT CARTRIGES

PLEATED MEMBRANE CARTRIDGES

SUPAPORE TT microfiltration capsules have been designed specifically for use in a wide range of aggressive gas and liquid processing applications.

Its naturally hydrophobic PTFE membrane and all fluoropolymer casing makes this capsule an ideal choice for systems requiring excellent compatibility, reliability and a consistently high quality filtrate.

SUPAPORE TT capsule filters are ready-to-use, no housings to purchase or maintain, easy to change-out with minimum downtime and reduced loss of process fluid.

Product Features

- 100% Fluoropolymer construction
- Naturally hydrophobic PTFE membrane
- Capsules available in a range of lengths and inlet/outlet configurations
- Minimal fibre migration
- Wide chemical compatibility
- All capsules are thermally bonded and adhesive free
- Each unit is pre-flushed with ultra-pure water
- User integrity testable by bubble point
- All capsules are integrity tested and pressure tested during manufacture
- In-line design

Available in a wide range of absolute rated 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 SUPAPORE 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 SUPAPORE TT cartridge.

SUPAPORE TT CAPSULES FEATURES AND BENEFITS

- Excellent chemical resistance offering wide process capability and compatibility
- Integral filter and housing minimizes operator exposure and maximizes uptime by allowing faster change-outs
- Capsules integrity tested during manufacturing to help ensure trouble free use
- Different connection and vent options can be supplied

Technical data

Dimensions

Filter Module Length	Nominal Capsules Length	Typical Surface Area
100mm (4")	230mm	0.45m ²
250mm (10")	445mm	0.9m ²
500mm (20")	660mm	1.82m ²
750mm (30")	927mm	2.76m ²

Maximum Operating Conditions

Recommended Maximum Differential Pressure:

Forward Flow:	5.5 Bar @ 24°C
	2.0 Bar @ 125°C
	3.8 bar @ 75°C
	1.0 Bar @ 150°C
Reverse Flow :	3.4 Bar @ 24°C
	1.0 Bar @ 121°C

Materials of Construction

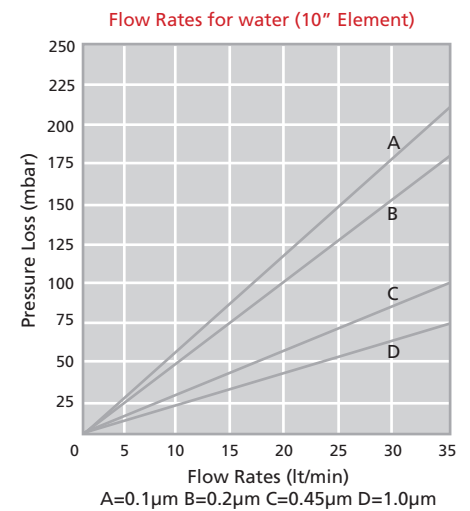
100% Fluoropolymer

Metals Extractables

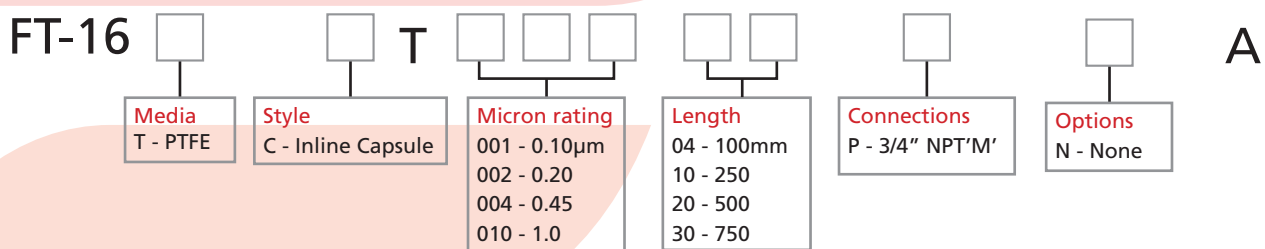
<20ppb (total) in a 10% HNO₃ extraction of 1.5 litres for 24 hours at ambient temperature

Integrity Test Specification

Micron Rating	Bubble Point In 60/40 IPA/Water @ 25°C
0.10µm	1.5 bar
0.20µm	0.9 bar
0.45µm	0.5 bar
1.00µm	0.2 bar



Ordering guide



Example: 16TCT002-20PNA = PTFE media, inline capsule, 0.2µm, double length 20" long, 3/4" NPT'M' connections, same side vent alignment.

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