SUPAPORE TTE



SupaPore TTE 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

SupaPore TTE cartridges feature:

- A naturally hydrophobic PTFE membrane
- 100% Fluoropolymer construction
- Extremely low flush requirements in high purity applications
- Excellent chemical compatibility
- Materials meet the requirements of 21CFR Part 177 and current USP Plastic Class VI - 121°C tests
- Fully integrity testable by bubble point or diffusion flow test
- Operational temperature up to



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

Available in a range of absolute rated pore sizes:

- 0.05µm
- 0.1µm
- 0.2µm
- 0.45µm
- 1.0µm

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

Amazon Filters manufacture a comprehensive range of filter housings for SupaPore TTE cartridges including the industrial 50 and 60 Series and the 70 Series for hygienic applications, in 316 Stainless Steel. Other housings are available using Fluoropolymer coatings.

Please consult our Sales Office for further details on the full range.

Features and Benefits

- Full Fluoropolymer construction
- Validated* removal ratings for consistent and reliable performance
- Capable of high temperature operation for extended periods
- High chemical resistance to most oxidising agents, solvents, acids and alkalis
- Identification mark on every cartridge
- Full product guide available

*See product validation guide for further details stating test method and rated efficiencies

Industries and Applications

Food and Beverage

Ozonated water

Pharmaceutical **Fine Chemicals**

Sterile filtration of API's and final solutions

Solvents, chemicals, high temperature air/gas

Electronics

Ultrapure water, photolithography chemicals



SupaPore TTE Technical Data

Dimensions

Outside Diameter: 70mm

Typical Surface Area: 0.63m² (Per 10") Length: See ordering guide

Maximum Operating Conditions Temperature: 150°C

Sterilisation and Sanitisation

Steam or Autoclave: 142°C for 30 mins (up to 30 cycles)
During Steam in place (SIP), the differential pressure across the cartridge should not exceed 0.30 bar at 142°C

Recommended Maximum Differential Pressure:

Forward Flow: 5.5 Bar @ 24°C

3.8 Bar @ 75°C 2.0 Bar @ 125°C 1.0 Bar @ 150°C

Reverse Flow: 3.4 Bar @ 24°C

Recommended change-out differential pressure 2.5 Bar
The operating conditions above should be treated as maximum differential pressures for short term use without causing cartridge collapse problems

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

Standard Materials of Construction

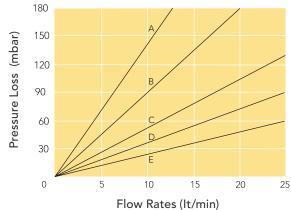
Filter Media: Polytetrafluoroethylene (PTFE)

PTFE Media support: End Caps: PFA Cage/Core:

Integrity Test Specification

Micron Rating	Minimum Bubble Point In 60/40 IPA/Water	Diffusion Flow (cc/min/10") In 60/40 IPA/ Water		
0.20µm	≥ 1000mBar	≤ 16.5 @ 800mBar		
0.45µm	≥ 480mBar	≤ 50 @ 350mBar		

Flow Rates For Water (10" Element)



A=0.05μm B=0.1μm C=0.2μm D=0.45μm E=1.0μm

Ordering Guide

16TT	E	001 -	09	7	F	Α	
Media	Grade	Micron Rating	Length	End Caps	Seal	Branding	Options
TT - PTFE / PFA	E - Electronics	000 - 0.05µm 001 - 0.10 002 - 0.20 004 - 0.45 010 - 1.0	09 - 250mm 20 - 500 30 - 750 40 - 1000	2 - Code 2 3 - Code 3 7 - Code 7 8 - Code 8	F - FEP / Silicone G - FEP / Viton	A - Amazon	

Example: 16TTE002-097FA = PTFE Media, General grade, 0.2µm, single length 10" long, Code 7 end fitting with FEP/Silicone seal.

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