

SUPAPORE TTE

All Fluoropolymer Cartridges



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 150°C



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 | • Sterile filtration of API's and final solutions |
| Fine Chemicals | • Solvents, chemicals, high temperature air/gas |
| Electronics | • Ultrapure water, photolithography chemicals |

AMAZON

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.

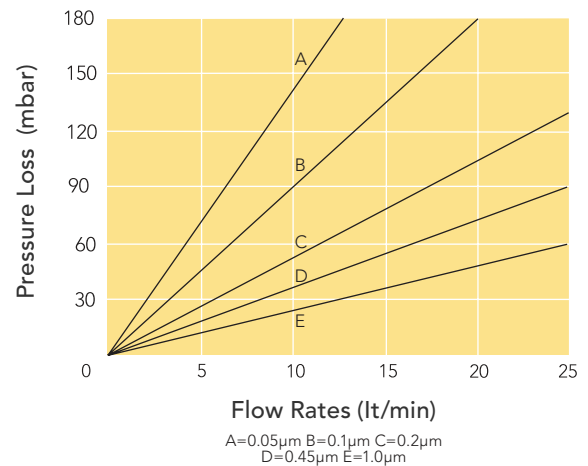
Standard Materials of Construction

Filter Media: Polytetrafluoroethylene (PTFE)
 Media support: PTFE
 End Caps: PFA
 Cage/Core: PFA

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)



Ordering Guide

16TT	E	001 -	09	7	F	A	
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.

AMAZON FILTERS LTD.

Albany Park Estate, Camberley, Surrey, GU16 7PG, ENGLAND

Tel: +44 (0) 1276 670 600 Email: sales@amazonfilters.co.uk Web: www.amazonfilters.com

SupaPore is a trademark of Amazon Filters Ltd.

AMAZON FILTERS LTD. reserve the right to change specification without prior notice, as part of their continuous product development programme.

16TTE - Issue 03