TeflonFlow® Filter Cartridges

Hydrophobic PTFE Membrane · Sterile Solvent Filter

TeflonFlow® Filter Cartridges are composed of a hydrophobic PTFE membrane. Characteristics include organic & inorganic corrosion resistance and it's inherently hydrophobic nature. These filters are ideally suited for the sterile filtration of solvents and corrosive and oxidized liquids.

Features and Benefits

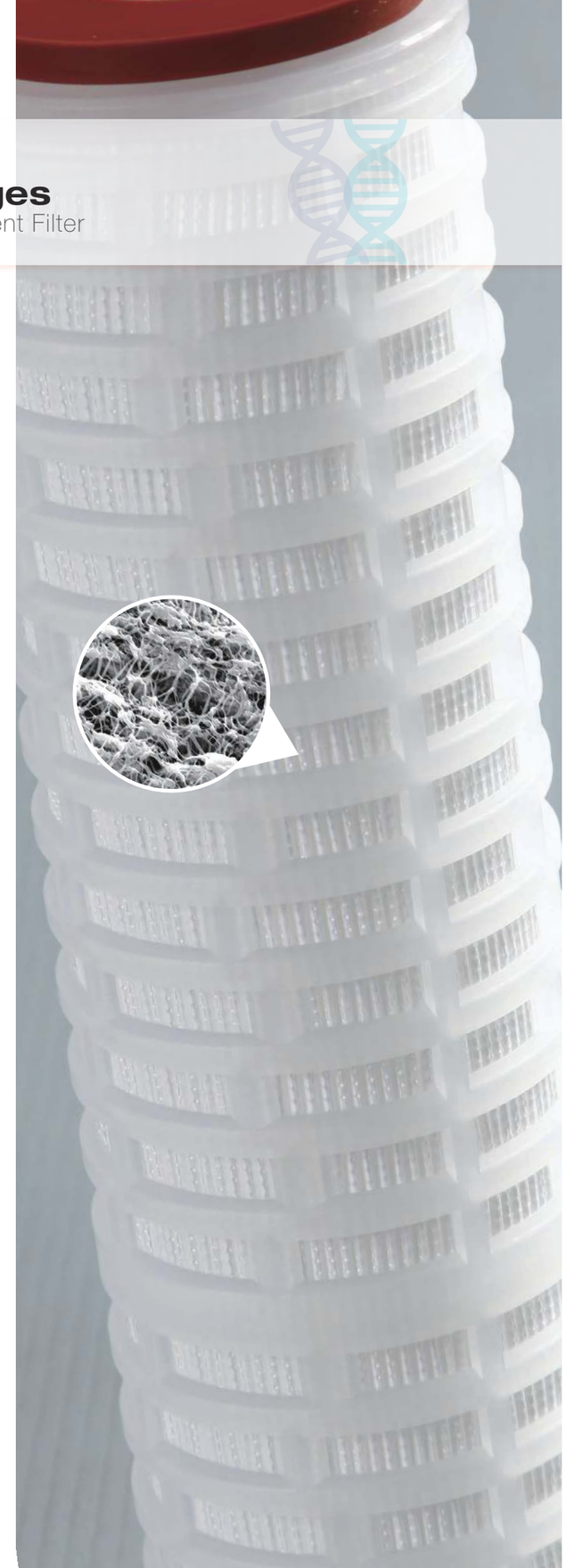
- Inherently hydrophobic
- Broad chemical compatibility
- High tolerance for aggressive acids and bases
- High flow rates
- Low extractable

Quality Standards

- Bacterial quantitative rentention of 10^7 CFU/cm² Brevundimonas Diminuta(ATCC 19146) according to ASTM F838 methodology .
- 100% Integrity testing in manufacturing .
- Each filter is fully traceable with unique serial number .
- Manufactured in a facility which adheres to ISO 9001:2015 Practices
- Full Regulatory Compliance with following :
  - •Bacterial Endotoxin :Aqueous extraction of autocalved filter contains <0.25 EU/ml as determined by Limulus Amebcyte Lysate (LAL),USP<85>.
  - •Non-fiber Releasing :Component materials meet the criteria for a " Non-fiber-releasing filter " as defined in 21 CFR 210.3(b)(6).
  - •Component Material Toxicity :Meet the requirement of USP <87> In Vitro Cytotoxicity Test ; Meet the Criteria of USP<88> Biological Reactivity Test for Class VI-121℃ plastics
  - •TOC/Conductivity at 25 ℃: Autoclaved filter effluent meet the USP<643> for Total Organic Carbon and USP<645> for Water Conductivity per WFI requirements after a UPW flush of specified volume .
  - •Particle Shedding : Autoclaved filter effluent meet the USP<788>for large volume Injections .
  - •Indirect Food Additive: All component materials meet the FDA Indirect Food Additive requirements cited in 21 CFR 177-182 , and EU framework regulation [1935/2004/EC].

Typical Applications

- Corrosive Liquid Sterilization and Particle Removal
- Oxidized Liquids
- Solvents



Materials of Construction

Filter Media	Hydrophobic PTFE Membrane
Support	Polypropylene
Core/Cage/End Caps	Polypropylene

Operating Conditions

Max. Operating Pressure	6.9 bar (100 psi) at 25 °C 4.0 bar (58 psi) at 60 °C 2.4 bar (35 psi) at 80 °C
Max. Differential Pressure	Forward 6.9 bar (100 psi) at 25 °C 4.0 bar (58 psi) at 60 °C 2.4 bar (35 psi) at 80 °C Reverse 3.0 bar (44 psi) at 25 °C 1.0 bar (15 psi) at 80 °C
Effective Filtration Area	0.68-0.99m² / Φ 69-10 inch

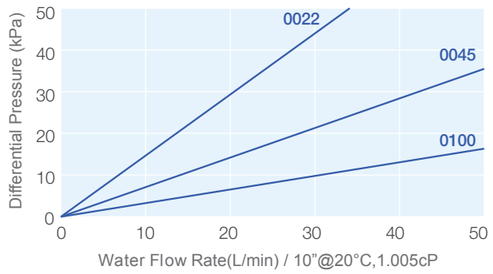
Sterilization

In-line Steam Sterilization	up to 35 forward cycles (135℃ for 30min < 0.3 bar per cycle.)
Autoclave	up to 120 cycles (130℃ for 30min for every cycle)

Integrity Test Data

Bubble Point	BP: ⩾ 0.11Mpa (60%/40%IPA/Water), 0.22μm
Diffusion Flow	DF: ⩽16ml/min/10"cartridge @80KPa (60%/40%IPA/Water) , 0.22μm
Water Intrusion Test	WFT : ⩽ 0.38ml/min/10"cartridge @0.25MPa), 0.22μm

Flow Rate Characteristics



Ordering Information

LPF | Removal Ratings | End Cap | Nominal Length | Seal Material | **-P**

Removal Ratings	End Cap	Nominal Length	Seal Material
0005=0.05μm	**HSF**=226 /Fin (PBT Insert)	**05**=5"	**S**=Silicone
0010 =0.1μm	**HSC**=226 /Flat (PBT Insert)	**10**=10"	**E**=EPDM
0020=0.2μm	**HTF**=222 /Fin (PBT Insert)	**20**=20"	**V**=Viton
0045=0.45μm	**HTC**=222 /Flat (PBT Insert)	**30**=30"	**P**=PFA/Viton
0100 =1.0μm	**DOE**=Double Open End	**40**=40"	**K**=PTFE
0300=3.0μm			
0500=5.0μm			