

APTF-T/APTFI-T FILTER CARTRIDGES

Hydrophilic and Hydrophobic PTFE membrane filters with ECTFE support and PVDF cage, for aggressive pharmaceutical applications

APTF-T/APTFI-T FILTER CARTRIDGES

DESIGNED FOR AGGRESSIVE PHARMACEUTICAL APPLICATIONS

APTF-T Filter Cartridges are composed of an expanded hydrophobic PTFE membrane, ECTFE support, and PVDF cage and core making it suitable to use in strong acid and solvent filtration.

APTFI-T Filter Cartridges are composed of a hydrophilic PTFE membrane which is specially designed for aggressive water-based filtration conditions.

FEATURE	BENEFIT
100% fluoropolymer construction	High filtration performance including high flow rates and low pressure drop
	Ideal for use with strong acids, and solvent filtration
	0.22 µm rating's retention efficiency up to 99.99999%
	Available in both hydrophobic and hydrophilic PTFE media
	Broad chemical compatibility

QUALITY STANDARDS

Quality Assurance	These products are manufactured in a facility which adheres to ISO 9001 Practices.
TOC / Conductivity at 25°C	Autoclaved filter effluent meets 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 meets the requirements in USP <788> for large volume injections
Non-Fiber Releasing	Component materials meet the criteria for a "Non-fiber-releasing filter" as defined in 21 CFR 210.3 (b) (6)
Bacterial Endotoxin	Aqueous extraction of autoclaved filter contains < 0.25 EU/mL as determined by Limulus; Amebocyte Lysate (LAL), USP <85>.
USP <87> Cytotoxicity	Meet the requirement of USP <87> In Vitro Cytotoxicity Test
USP <88> Biological Toxicity	Meet the criteria of the USP <88> Biological Reactivity Test for Class VI-121°C plastics.
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].

SPECIFICATIONS

Filter media	Expanded Hydrophobic or Hydrophilic PTFE Membrane
Core/cage/end caps	PVDF
Supports	ECTFE
Effective filtration area	0.96 m ² (10.3 ft ²) / φ68-10 inch
O-rings	PTFE, FEP/PFA encapsulated FKM



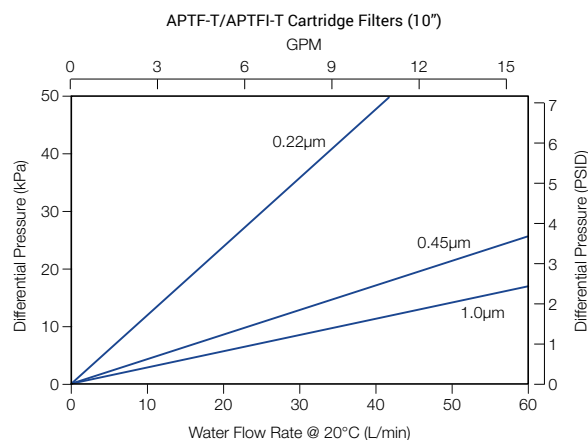
Typical Applications

- Strong Acid Filtration
- Aggressive Solvents Filtration
- Ozonated Water
- API Manufacturing

Cartridge Diameter	68 mm (2.7 in.)
Max. Continuous Operating Temperature	96°C
Max. Differential Pressure	0.50 MPa (5.0 bar, 73 psi) at 21°C 0.30 MPa (3.0 bar, 44 psi) at 80°C
Integrity Test Standards:	Bubble Point: ≥ 0.10 MPa (14.5 psi) (60%/40% IPA/Water)
APTF-T, 0.22μm Hydrophobic	Diffusion Flow: ≤ 28 ml/min/10" @ 80Kpa (11.6 psi) (60%/40% IPA/Water)
	WIT: 0.53 ml/min/10" @ 0.25MPa (36.3 psi)
Integrity Test Standards:	Bubble Point: ≥ 0.32 MPa (46.4 psi) (Water)
APTFI-T, 0.22μm Hydrophilic	Bubble Point: ≥ 0.1 MPa (14.5 psi) (60%/40% IPA/Water)
	Diffusion Flow: ≤ 28 ml/min/10" @ 80Kpa (11.6 psi) (60%/40% IPA/Water)

Not recommended for Inline Steam Sterilization and Autoclaving.

FLOW RATES



ORDERING INFORMATION

EXAMPLE: **APTF-T0020SF10P-P** = Hydrophobic, 0.2 μ m, 226/Fin, 10" length filter with E-FKM seals

<div style="border: 1px solid black; width: 40px; height: 20px; margin: 0 auto;"></div> <p>Membrane APTF-T = Hydrophobic ATFI-T = Hydrophilic</p>	<div style="border: 1px solid black; width: 40px; height: 20px; margin: 0 auto;"></div> <p>Removal Rating <i>Sterilizing Grade</i> 0005 = 0.05 μm 0010 = 0.1 μm 0020 = 0.2 μm <i>Bio-reduction Grade</i> 0045 = 0.45 μm 0100 = 1.0 μm 0300 = 3 μm 0500 = 5 μm</p>	<div style="border: 1px solid black; width: 40px; height: 20px; margin: 0 auto;"></div> <p>Connection DOE = Double Open End, Flat Gasket DTC = 222 O-ring/Flat DTF = 222 O-ring/Fin SC = 226 O-ring/Flat SF = 226 O-ring/Fin</p>	<div style="border: 1px solid black; width: 40px; height: 20px; margin: 0 auto;"></div> <p>Nominal Length 05 = 5" 10 = 10" 20 = 20" 30 = 30" 40 = 40"</p>	<div style="border: 1px solid black; width: 40px; height: 20px; margin: 0 auto;"></div> <p>Seal Material K = PTFE P = E-FKM (FEP/PFA encapsulated FKM)</p>	<p>-P</p>
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