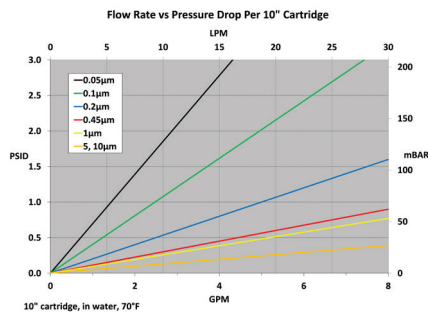


GPFA-Series Pleated All-Fluoropolymer PTFE/PFA

GPFA-Series High Purity All-Fluoropolymer Filter Cartridges provide superior chemical compatibility, temperature range, and ultra-low extractables for the most demanding needs of the microelectronics industry. Ideal for aggressive “wet-etch and clean” applications. The PTFE membrane offers high flow rates at low pressure drop, while the ultra-pure perfluoralkyl (PFA) hardware exhibits superior chemical resistance and high temperature tolerance. Minimized ionic and TOC extractables are attained through a specialized UPW flush process. Wetpacking option is available for ease of wetting in aqueous applications. Available in the full range of micron ratings to suit all applications.

Flow Rate vs Pressure Drop



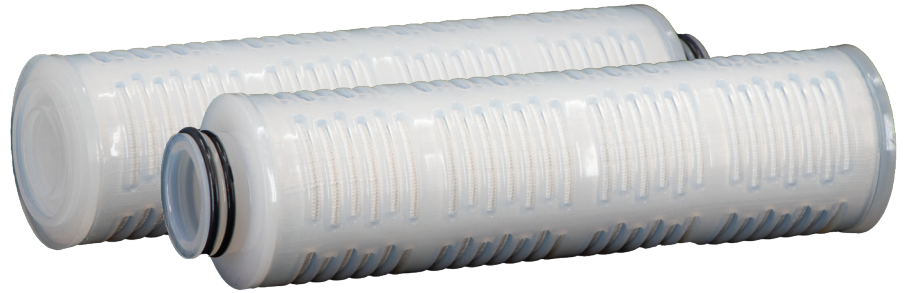
Typical Applications

Highly Reactive Chemicals

- Acetic Acid (10%)
- Hydrofluoric Acid (50%)
- Hydrogen Peroxide (30%)
- Nitric Acid (conc.)
- Phosphoric Acid (conc.)
- Sulfuric Acid (conc.)
- Ammonium Hydroxide (conc.)
- Potassium Hydroxide (conc.)
- Sodium Hydroxide (conc.)
- TMAH (5%)
- Aqua Regia (HNO₃:HCl)
- BOE; NH₄F:HF
- Mixed Acid Etch
- ChromPhos Etch
- Piranha Etch

Ultra-Pure Water

- Pharmaceutical production
- Ozonated systems



Construction Materials

Filtration MediaPTFE
Support MediaPTFE
End Caps PFA
Center Core PFA
Outer Support Cage..... PFA
O-Ring/Gasket.....Teflon® Encapsulated Viton®

Dimension (Nominal)

Length 5 to 40 in (12.7 to 101.6 cm)
Outside Diameter 2.68 in (6.8 cm)

Operating Conditions

Change Out ΔP (recommended)35 PSID
Temperature (max)320°F (160°C)
Differential Pressure (max) 73 PSID at 68°F
 (5.0 bar at 20°C)

Cleanliness

The Semiconductor Rinse (SR) option delivers extraordinary product cleanliness at these typical levels.

Metals Extractable < 20 ppb total

Particulate Extractable ≤ 2 counts/ml at ≥ 0.2µ
 ≤ 1 count/ml at ≥ 1.0µ

TOC Extractablebelow detection limits

Ordering Information

GPFA	Rating	A	Length	C	End Cap Style	O-Rings	-	Options
	0.05		10" (25.4 cm)		3 = 222 w/Fin	T= Teflon® Encapsulated Viton®		SR = Semiconductor Rinse
	0.1		20" (50.8 cm)		4 = 222 w/Flat Cap	Z = Teflon® Encapsulated Silicone		W = Wet Packed
	0.2		30" (76.2 cm)		6 = 226 w/Flat Cap			
	0.45		40" (101.6 cm)		7 = 226 w/Fin			
	1.0							
	5.0							

DISCLAIMER: Filtration data presented is representative of performance observed in controlled laboratory testing. It is not given as a warranty, specification or statement of fitness for use. Specific performance can vary widely depending on contaminant type, fluid properties, flow rates and environmental conditions. It is recommended that users conduct thorough qualification testing to assure the product functions as required. For additional technical support, a product Performance Guide is available upon request.

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