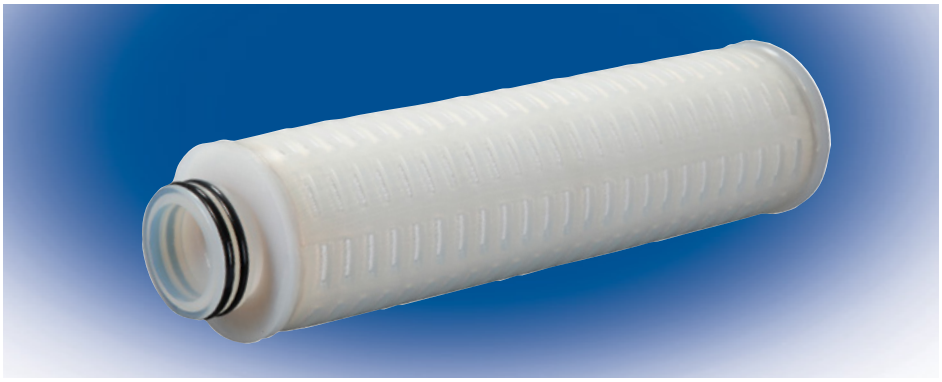
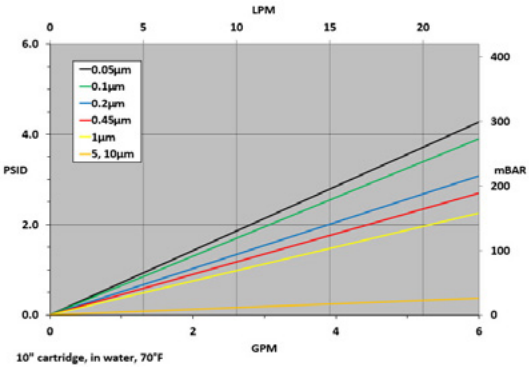
GLOBAL FILTER
Filtration Group®

GPFA-Series Pleated All-Fluoropolymer PTFE/PFA

GPFA-Series High Purity All-Fluoropolymer Filter Cartridges provide superior chemical compatibility, temperature range, with 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 rate at low pressure drop, while the PFA-440HP hardware exhibits superior chemical resistance and high temperature tolerance. Minimized ionic and TOC extractables are attained through a specialized UPW flush process. Wet-packing 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

Construction Materials

Filtration Media ..... PTFE
Support Media ..... PFA
End Caps PFA440HP
Center Core PFA440HP
Outer Support Cage PFA440HP
O-Rings ..... Teflon® Encapsulated Viton®

Operating Conditions

Change Out ΔP (recommended) ..... 35 PSID
Temperature (max) ..... 365˚F (185˚C)
Differential Pressure (max) ..... 60 PSID (4.1 bar) at 68˚F (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 ≥ 0.2 µ
≤ 1 count/ml at ≥ 1.0 µ
TOC Extractable: ..... below detection limits

Ordering Information

GFPA	Rating (µ)		A	Length	C	End Cap Style	O-Rings	Options
GFPA	0.05	5.0		5" (12.7 cm)		3 = 222 w/ Fin	T = Teflon® Encapsulated Viton®	SR = Semiconductor Rinse
	0.1	10.0		10" (25.4 cm)		4 = 222 w/Flat Cap		W = Wet Packed
	0.2			20" (50.8 cm)		6 = 226 w/Flat Cap		
	0.45			30" (76.2 cm)		7 = 226 w/ Fin		
	1.0			40" (101.6 cm)				

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.

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