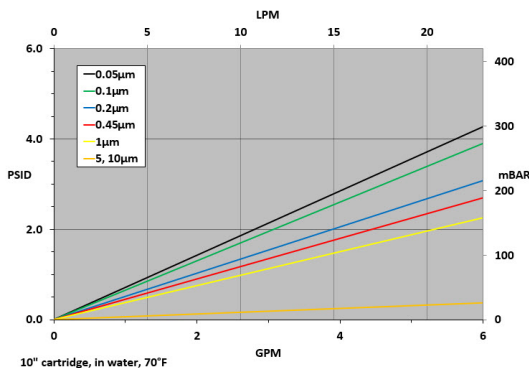


## GPFA-Series Pleated All-Fluoropolymer PTFE/PFA

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 micro-electronics industry. Ideal for aggressive “wet-etch and clean” applications. The PTFE membrane offers high flowrates 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



### Dimensions

#### Length:

5 to 40 inches (12.7 to 101.6 cm) nominal

#### Outside Diameter:

2.68 inches (6.8 cm) nominal



### Typical Applications

#### Highly Reactive Chemicals

- Acetic Acid (10%)
- Hydrofluoric Acid (50%)
- Hydrogen Peroxide (30%)
- Nitric Acid (conc.)
- Phosphoric Acid (conc.)
- Sulfuric Acid (cavonc.)
- Ammonium Hydroxide (conc.)
- Potassium Hydroxide (conc.)
- Sodium Hydroxide (conc.)
- TMAH (5%)
- Aqua Regia (HNO<sub>3</sub>:HCl)
- BOE; NH<sub>4</sub>F:HF
- Mixed Acid Etch
- ChromPhos Etch
- Piranha Etch

#### Ultra-Pure Water

- Pharmaceutical production
- Ozonated systems

### Toxicity

All PFA and PTFE components meet the specifications for biological safety per USP Class VI – for plastics.

### 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 ≥ 0.2µ  
 ≤ 1 count/ml at ≥ 1.0µ

**TOC Extractable:**.....below detection limits

### Ordering Information

GPFA	Rating (µ)	A	Length	C	End Cap Style	O-Rings	Options
	0.05		5" (12.7 cm)		3 = 222 w/Fin	T = Teflon® Encapsulated Viton®	SR = Semiconductor Rinse
	0.1		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)		24 = 222 w/Hat Cap		
	5.0						
	10.0						

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.

DS\_GPFA\_210412