



Filter Data Sheet

High Purity - FluoroClear Pleated All-Fluorocarbon

FluoroClear Cartridges are designed for highly aggressive wet-etch and cleaning applications. FluoroClear cartridges are constructed with 100% fluorocarbon materials, providing broad chemical compatibility and temperature resistance. The PTFE membrane delivers high flow rates and high purity effluent at low pressure drops. Cartridges are available as flushed & dried or as wet-packed (60/40% DI Water/IPA Solution). FluoroClear cartridges are manufactured in a cleanroom environment to ensure product cleanliness.



Filter Grade (µm)	DI Water Flow per 1 PSID (µm/10" (25.4 cm) equivalent)
0.05	0.7 (2.65 lpm)
0.1	1.75 (6.6 lpm)
0.2	3.2 (12.1 lpm)
0.45	4.3 (16.2 lpm)
1.0	5.7 (21.6 lpm)

Typical Applications

Wet-etch & cleaning chemicals:

- Sulfuric Acid
- Hydrofluoric Acid
- Phosphoric Acid
- Nitric Acid
- Photoresist
- Ozonated Process Streams

Construction Materials

Membrane.....PTFE
 Support Media.....ECTFE
 End Caps.....ECTFE
 Center Core.....ECTFE
 Outer Support Cage.....ECTFE
 O-Rings/Gaskets.....Teflon® Encapsulated Viton

Sanitization/Sterilization

FluoroClear cartridges may be sanitized using compatible chemical agents. FluoroClear cartridges may not be autoclaved or steam sterilized.

Integrity Testing

0.05 µm ≤ 5 cc \ min at 40 psig (2.76 bar)
 0.1 µm ≤ 5 cc \ min at 40 psig (2.76 bar)
 0.2 µm ≤ 5 cc \ min at 30 psig (2.07 bar)
 0.45 µm ≤ 5 cc \ min at 20 psig (1.38 bar)
 1 µm ≤ 5 cc \ min at 15 psig (1.38 bar)

Maximum Recommended Operating Conditions

Temperature.....215°F (102°C)

Maximum Differential Pressures

Forward.....60 PSI (4.14 bar) at 70°F (21°C)
 Reverse.....30 PSI (2.07 bar) at 70°F (21°C)

Dimensions

Length:
 10 to 40 inches (25.4 to 101.6 cm) nominal
 Outside Diameter:
 2.70 inches (7.0 cm) nominal

FDA Listed Materials

Manufactured from materials which are listed for food contact applications in Title 21 of the U.S. Code of Federal Regulations.

Toxicity

All polypropylene components meet the specifications for biological safety per USP Class VI – 121°C for plastics.

Ordering Information

GFL	Pore Size (µm)	A	Length	C	End Cap Code	O-Rings/Gaskets	-	Options
	0.5		10 (25.4 cm)		2 = DOE Flat Gasket	T = Teflon® Endcapsulated Viton		E = Flushed & Dried
	0.1		20 (50.8 cm)		3 = 222 w/ Fin			W = Wet-Packed
	0.2		30 (76.2 cm)		4 = 222 w/ Flat Cap			
	0.4		40 (101.6 cm)		6 = 226 w/ Flat Cap			
	1.0				7 = 226 w/ Fin			