



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 (gpm/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	$\leq 5 \text{ cc} \backslash \text{min}$ at 40 psig (2.76 bar)
0.1 μm	$\leq 5 \text{ cc} \backslash \text{min}$ at 40 psig (2.76 bar)
0.2 μm	$\leq 5 \text{ cc} \backslash \text{min}$ at 30 psig (2.07 bar)
0.45 μm	$\leq 5 \text{ cc} \backslash \text{min}$ at 20 psig (1.38 bar)
1 μm	$\leq 5 \text{ cc} \backslash \text{min}$ 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
	0.05		10 (25.4 cm)		2 = DOE Flat Gasket	T = Teflon® Encapsulated 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			

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