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 (High Purity DI water/ hydrogen peroxide solution). FluoroClear cartridges are manufactured in a cleanroom environment to ensure product cleanliness.

Liquid Flow Specifications

Rating (µ)	DI Water Flow per 1 PSID (gpm/10" (25.4cm) 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
- Photo-resists
- 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

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

Dimensions

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

Maximum Recommended Operating Conditions

Temperature ..... 215˚F (102˚C)

Maximum Differential Pressures

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

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

Ordering Information

GFL	Rating (µ)	A	Length	C	End Cap Style	O-Rings/Gaskets	-	Adders
	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	Z = Teflon® Encapsulated Silicone		W = Wet-Packed
	0.2		30" (76.2 cm)		4 = 222 w/ Flat Cap			
	0.45		40" (101.6 cm)		6 = 226 w/ Flat Cap			
	1.0				7 = 226 w/ Fin			