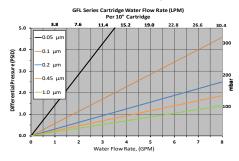
PharmBiologic Solutions, LLC Advancing custom solutions



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.

Flow Rate vs Pressure Drop



Typical Applications

- · Wet-etch & cleaning chemicals:
- Sulfuric Acid
- Hydrofluoric Acid
- Phosphoric Acid
- Nitric Acid
- · Photo-resists
- Ozonated Process Streams

Construction Materials

Membrane

Membrane	F I F E
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

 $0.05\mu \le 5$ cc \ min at 40 psig (2.76 bar) $0.1\mu \le 5$ cc \ min at 40 psig (2.76 bar) $0.2\mu \le 5$ cc \ min at 30 psig (2.07 bar) $0.45\mu \le 5$ cc \ min at 20 psig (1.38 bar) $1\mu \le 5$ 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)	Α	Length	С	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			

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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