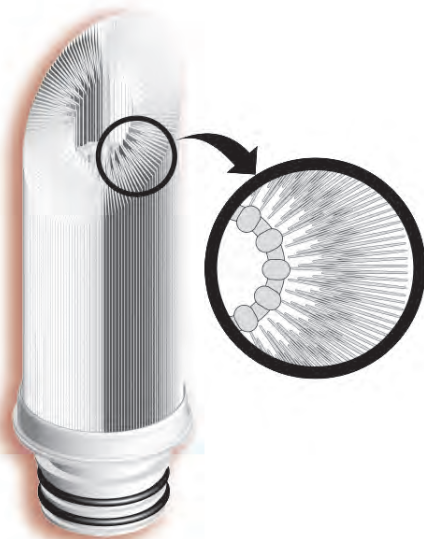




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POLYFLOW® MEMBRANE-SELECT

Polypropylene membrane cartridge with extended surface area



Polyflow® Membrane-SELECT cartridges deliver high-purity solvents and chemicals for semiconductor and microelectronics applications. The all-polypropylene construction is an excellent, economic alternative to fluoropolymer-based cartridges for many chemicals. It ensures the highly efficient removal of particulate that could impact process quality.

Due to its innovative SELECT-Pleating, performance is increased markedly over similar competitive cartridges. Only one of every four pleats extends to the core, a design that places most of the filtration area nearer to the outer wall. This prevents crowding of the media around the core, which in standard-pleated cartridges tends to restrict the exiting flow. This innovative design results in higher flow-rates, lower differential pressures, and longer life.

The cartridges are manufactured in a certified cleanroom where they are flushed with non-pyrogenic deionized water and 100% integrity tested to provide complete product traceability.

BENEFITS

- High flow-rate reduces processing time and allows for smaller system sizes
- Low extractables shorten start-up time
- Excellent chemical compatibility for use in most applications
- Longer life reduces the cost of filtration

APPLICATIONS

- Etchants/solvents
- Photoresists/dilute acids and bases
- Developers
- Bulk chemical delivery systems

SPECIFICATIONS

Materials of construction

Membrane	Polypropylene
Support layers	Polypropylene
Structure	Polypropylene

Effective filtration area

8.4ft ² (0.78m ²)	0.07 pore size per 10" (250mm) cartridge
10.1ft ² (0.94m ²)	0.1 pore size per 10" (250mm) cartridge
9.8ft ² (0.88m ²)	0.2 pore size per 10" (250mm) cartridge

Metals extractable

<50ppb (total)	in a 10% HNO ₃ extraction of 1.5 liters for 24 hours at ambient temperature
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Maximum differential pressure/temperature

Forward	70psid (4.8bar) @ 68°F (20°C)
	40psid (2.8bar) @ 158°F (70°C)
Reverse	30psid (2.1bar) @ 68°F (20°C)

Cleanliness (particle shedding)

Wet-packed <1 particles/ml >0.2µm after 10gal at 1gal/min

Data as from open bag and installed, no additional installation flushing.

TOC/resistivity rinse-up (wet-packed)

TOC rinse-up to background plus 5ppb of feed after 40gal @ 1gal/min.

Resistivity rinse-up to background minus 0.2megohm-cm of feed after 40gal @ 1gal/min.

Integrity test values

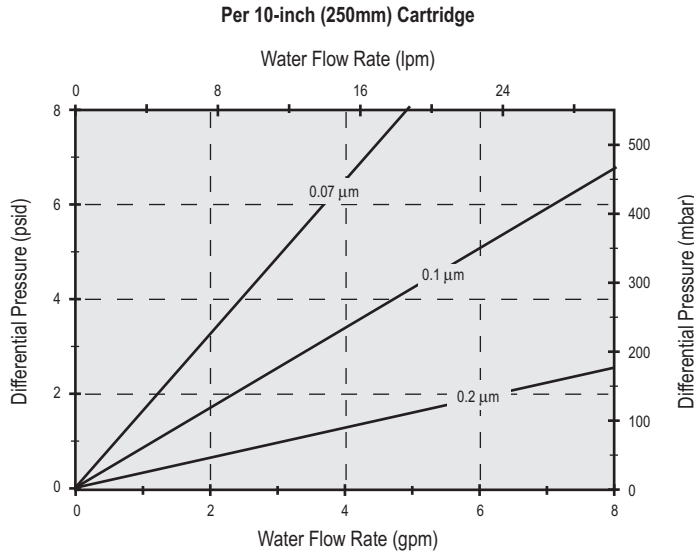
FILTER RATING	MINIMUM BUBBLE POINT*	
	µm	psig
0.07	25	1.7
0.1	16	1.4
0.2	9	0.6

*Tested in a 60/40 IPA/DI water.

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PERFORMANCE ATTRIBUTES



ORDERING INFORMATION

Each cartridge is identified with a product number, pore size and lot number for traceability.

MS — [] 0 [] [] [] — [] [] [] — [] — E []

Insert Style		End Fitting		Length		Filter Rating		O-Rings		Options	
CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	LENGTH	CODE	MICRON	CODE	MATERIAL	CODE	TREAD
1	No Insert (Std.)	2	226/Flat	10	10" (250mm)	001	0.1µm	0	Buna	Blank	Standard
5	Encapsulated Stainless Steel	3	222/Flat	20	20" (500mm)	002	0.2µm	1	EPDM	W	Wet Pack
6	Encapsulated Polysulfone	7	226/Fin	30	30" (750mm)	101	0.07µm	2	Silicone		
A	1/2" Shortened on 222 Fitting	8	222/Fin	40	40" (1000mm)			4	Viton®		
								5	FEP-Encapsulated Viton		
								N	None		

TECHNICAL SUPPORT AND PRODUCT ORDERING

domnick hunter Advanced Filtration provides our customers with unsurpassed product consistency and cost-efficiency. Our experienced professionals can help you select the right solution for your application. For more information or to place an order, contact your local distributor. Information on product specifications, applications and chemical compatibility can be found on our web site at www.domnickhunter-af.com or through your nearest domnick hunter Advanced Filtration office.

domnick hunter Advanced Filtration designs and manufactures an extensive line of innovative solutions for specific applications in Biopharmaceutical, Microelectronics, Food and Beverage, Industrial and Chemical industries.

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