

PureFlo® Wrapped Polypro Cartridges (High Dirt-holding Capacity)

PureFlo® Wrapped Polypro Cartridges are designed for large-scale filtration and clarification applications in the pharmaceutical, biotechnology, food and beverage, medical, chemical, water, and power generation industries. This family of products is particularly suitable for fluids that contain bio-burden or suspended solids with a wide particle size distribution.

The filter is constructed of multiple layers to achieve an optimized graded density structure resulting in superior dirt holding capacity and high retention efficiency. The graded-density design protects downstream layers by retaining larger particles in the more open outer layers. In this way, the outer layers act as a built-in pre-filter while the inner layers provide absolute rating at the specified pore size. This design efficiently spreads the contaminants throughout the depth media matrix providing superior lifetime and maintaining lower pressure drops as compared to standard PP media cartridges.



Applications

Clarification	Ink
Bio-Burden	Beverages
Yeast Removal	Pharmaceuticals
Fine Chemicals	Biologics
Plating Solutions	Wine
Beer	Water

Specifications

Materials of Construction: Media: Polypropylene (non-woven)
Media Supports: Polypropylene
Cage, Core, End Caps: Polypropylene
O-Rings: Silicone, EPDM, Fluoro-Elastomer, Buna N, TES, TEV

Fitting Connections: See ordering guide for the availability
Custom adaptors available upon request

Nominal Dimensions: Lengths: 5 in. (13 cm), 10 in. (25 cm), 20 in. (51 cm),
30 in. (76 cm), 40 in. (102 cm)
Diameter: 2.75 in. (70 mm)

Available Ratings: 0.2, 0.5, 1.0, 1.5, 2.5, 4.5, 10, and 20 µm

Operating Conditions: Maximum Forward Differential Pressure: 5.0 bar (72.5 psid) at 22 °C,
2.0 bar (29 psid) at 80 °C
Maximum Reverse Differential Pressure: 3.0 bar (43.5 psid) at 22 °C,
1.0 bar (14.5 psid) at 80 °C
Maximum Operating Temperature: 80 °C

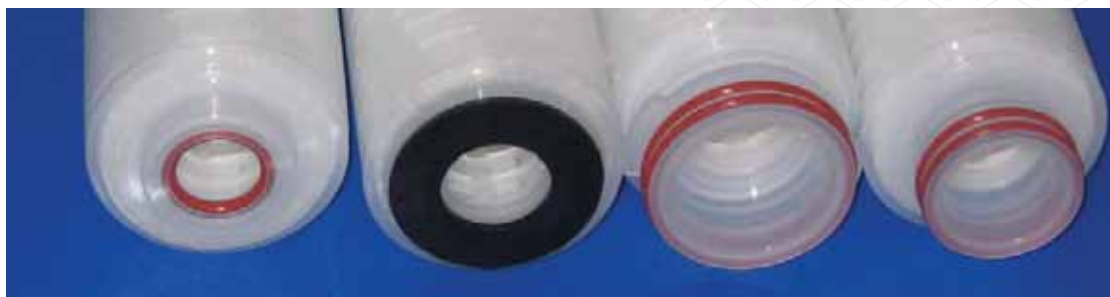
Regulatory Compliance: The filters are constructed with polypropylene resins and filtration media in compliance with 21 CFR Part 177 of the US Code of Federal Regulations and USP Class VI Biological Test for Plastic.

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Specifications (cont.)

Sterilization & Autoclaving

The filters can be sterilized by autoclaving for up to 25 cycles at 125°C (257°F) for 30minutes. The filters can also be sterilized by steam-in-place procedure up to 5 cycles at 135°C (275°F) for 30 minutes at less than 0.3 bar (4.35 psi) differential pressure. The filters can also be sanitized by hot water or common chemicals that are compatible with filter components.



PureFlo Wrapped Polypro Cartridge Ordering Guide

PureFlo Polypropylene Filter Cartridges	Removal Rating	End Modifications	Length	O-Ring / Gasket Materials	Package Qty	Inserts
NRP = Wrapped Polypropylene Media	03 = 0.30 micron	0 = 222 O-Ring Flat	1 - 10"	E = EPDM	1 = 1pc/ pack	Blank = Standard
	05 = 0.50 micron	3 = 222 O-Ring w/tabs Spear	2 - 20"	N = Buna N	6 = 6pc/ pack	-5 = Stainless Steel Insert
	10 = 1 micron	5 = 222 O-Ring Spear	3 - 30"	P = Peroxide Cured EPDM	(for 10" and 20" only)	
	30 = 3 micron	6 = 226 O-Ring Flat	4 - 40"	Q = Platinum Cured Silicon		
	50 = 5 micron	7 = 226 O-Ring Spear	5 = 5"	S = Silicone		
	70 = 7 micron	8 = 223 O-Ring Flat	9 = 9.75"	T = TEV or FEP Gasket		
	1X = 10 micron	B = 1.5" Tri-Clamp Flat		U = TES*		
	2X = 20 micron	F = DOE Flat Gasket		V = Fluoroelastomer		
		S = SOE Flat Gasket		O = No O-ring		
		Y = DOE Internal O-ring Flat **				
	Z = SOE Internal O-ring Flat **					
<p>Example - PP Wrapped Media filter, 10", 3 micron cartridge, with 2-222 Silicone o-ring, Flat end cap, and no insert would be NRP3001S1</p> <p>* - not available in Code Z ** - only available in 5", 9.75", 10" and 20", retrofit for DOE housings</p>						

Your Local Distributor:

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