



InterPure

General Grade PTFE - PTFE Membrane for Liquid and Air Applications

General Grade Teflon Cartridges are designed for general purpose use wherever a cost effective Teflon membrane filter is required. Typical applications include filtration of aggressive fluids, vent filtration, air and gas filtration. These cartridges are found in the manufacturing processes of pharmaceutical companies, semi-conductor manufacturers and bulk chemical companies. Priced below special purpose cartridges, general grade cartridges are still manufactured with the same careful attention to quality and performance.

Flow Rate

The following table represents typical water flow at 69 mbar (one psi) pressure differential across a single 10 inch cartridge element. The test fluid is water at ambient temperature. Extrapolation for housing with multiple elements and higher pressure drops is acceptable, but as flows increase the pressure drop of the housing becomes more apparent.

Pore Size	l/min
0.1 µm	4.7
0.2 µm	10.6
0.45 µm	21.6
1.0 µm	34.1
3.0 µm	43.2

Product Purity

All components FDA acceptable per 21 CFR. All polypropylene components meet the specifications for biological safety per USP Class VI-121 C for plastics.



Construction Materials

Filtration Media Teflon®
Support Media Polypropylene
End Caps Polypropylene
Center Core Polypropylene
Outer Support Cage Polypropylene
O-rings/Gaskets Silicone, EPDM, Buna, Viton, Teflon® Encapsulated Viton, Polyfoam

Maximum Differential Pressures

Forward 3.4 bar at 20°C
Reverse 2.7 bar at 20°C

Maximum Recommended Operating Conditions

Maximum Temperature 80°C

Dimensions

Length:
 10 to 40 inches (25.4 to 101.6 cm) nominal
Outside Diameter:
 2.70 inches (7.0 cm) nominal
Filter Area: 0.7 m² per 10"

Sanitisation/Sterilisation

Filtered Hot Water 90°C
Autoclave 127°C, 30 min, multiple cycles
In-line Steam 135°C, 30 min, multiple cycles
Chemical Sanitisation - Industry standard concentrations of hydrogen peroxide, peracetic acid, sodium hypochlorite and other selected chemicals.

Absolute Filtration Ratings

99.98% (β_x=5000) removal efficiencies.

Ordering Information (universal ordering code, not all options are available)

PTF	Pore Size	Length	End Cap Code	O-Rings/Gaskets
	0.1 = 0.1 µm	1 = 10" (25.4 cm)	1 = DOE with Gaskets	1 = Silicone
	0.2 = 0.2 µm	2 = 20" (50.8 cm)	2 = SOE -222 O-rings with Flat Cap	2 = EPDM
	0.45 = 0.45 µm	3 = 30" (76.2 cm)	3 = SOE -222 O-rings with Fin	3 = Buna
	1.0 = 1 µm	4 = 40" (101.6 cm)	4 = SOE -222 O-rings with Spring	4 = Viton
	3.0 = 3 µm	Y = 5" (12.7 cm)	5 = SOE -226 O-rings with Spring	5 = Teflon® Encapsulated Viton
			6 = SOE -226 O-rings with Flat Cap	
			7 = SOE -226 O-rings with Fin	
			8 = SOE with Spring	
			9 = SOE with Core Extender	

Note: Stainless insert option needed for all cartridges being hot water sanitized or steam sterilized



InterPure P

PHARMA GRADE - PTFE Membrane

PHARMA Grade Teflon Cartridges are designed for pharma purpose use wherever a cost effective PTFE membrane filter is required. Typical applications include filtration of aggressive fluids, vent filtration, air and gas filtration. These cartridges are found in the manufacturing processes of pharmaceutical companies, semi-conductor manufactures and bulk chemical companies.

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 70°C

Maximum Differential Pressures

Forward 5 bar at 25°C

Product Purity

All components FDA acceptable per 21 CFR.

All polypropylene components meet the specifications for biological safety per USP Class VI-121 C for plastics.

Sanitisation/Sterilisation

Autoclave 135°C, 30 min, multiple cycles

In-line Steam 140°C, 30 min, multiple cycles

Chemical Sanitisation - Industry standard concentrations of hydrogen peroxide, peracetic acid, sodium hypochlorite and other selected chemicals.



Construction Materials

Filtration Media PTFE

Support Media Polyester

End Caps Polyester

Center Core Polypropylene

Outer Support Cage Polypropylene

O-rings/Gaskets Silicone, EPDM, Buna, Viton, Teflon® Encapsulated Viton

FILTRATION RATING	BACTERIAL RETENTION >10 ⁷ CFU/cm ²	INTERGRITY TEST (DIFFUSION TEST PER 10")
0.1 µm	Acheleoplasma laidlawii	IPA/Water 60/40: 10 ml/min @ 1.3 bar
0.2 µm	Brevundimonas diminuta	WIT: 16 Nml/min @ 2.5 bar

Ordering Information (universal ordering code, not all options are available)

PTFP	Pore Size	Length	End Cap Code	O-Rings/Gaskets
	0.1 = 0.1 µm	1 = 10" (25.4 cm)	1 = DOE with Gaskets	1 = Silicone
	0.2 = 0.2 µm	2 = 20" (50.8 cm)	2 = SOE -222 O-rings with Flat Cap	2 = EPDM
		3 = 30" (76.2 cm)	3 = SOE -222 O-rings with Fin	3 = Buna
		4 = 40" (101.6 cm)	4 = SOE -222 O-rings with Spring	4 = Viton
		Y = 5" (12.7 cm)	5 = SOE -226 O-rings with Spring	5 = Teflon® Encapsulated Viton
			6 = SOE -226 O-rings with Flat Cap	
			7 = SOE -226 O-rings with Fin	
			8 = SOE with Spring	
			9 = SOE with Core Extender	

Note: Stainless insert option needed for all cartridges being hot water sanitized or steam sterilized