



InterPore F

Food & Beverage Grade Nylon - Nylon Membrane for F&B Applications

Food & Beverage Grade Cartridges are designed to meet the special needs of the Food & Beverage industry. Able to remove particles below the rated pore size of the membrane, these cartridges exhibit superior retention. Nylon cartridges are often used in Food & Beverage applications. Each cartridge module is rinsed with a high purity flush system. Each cartridge module is also individually tested for integrity using the diffusional flow method. Our design criteria and special procedures allow us to provide the highest quality Food & Beverage grade cartridge.

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	3,8
0.2 µm	5,7
0.45 µm	15,1
0.65 µm	22,7
0.8 µm	24,6
1.0 µm	26,5



Construction Materials

Filtration Media Nylon 6,6
Support Media Polypropylene
End Caps Polypropylene
Center Core Polypropylene
Outer Support Cage Polypropylene
O-rings/Gaskets Silicone, EPDM, Buna, Viton, Teflon® Encapsulated Viton, Polyfoam

Absolute Filtration Ratings

99.98% ($\beta_x=5000$) removal efficiencies.

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.

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"

Maximum Recommended Operating Conditions

Temperature 80°C

Maximum Differential Pressures

Forward 3,4 bar at 20°C
Reverse 2,7 bar at 20°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.

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

NPF	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
	0,65 = 0,65 µm	4 = 40" (101.6 cm)	4 = SOE -222 O-rings with Spring	4 = Viton
	0,8 = 0,8 µm	Y = 5" (12.7 cm)	5 = SOE -226 O-rings with Spring	5 = Teflon® Encapsulated Viton
	1,0 = 1,0 µm		6 = SOE -226 O-rings with Flat Cap	6 = Polyfoam End Gaskets
			7 = SOE -226 O-rings with Fin	
			8 = SOE with Spring	
			9 = SOE with Core Extender	