

PolyPure-AB PP Series

High Performance Absolute Rated (99.98%) Pleated Polypropylene Filter Cartridge

Description

The PolyPure-AB is an absolute rated high performance, pleated cartridge made from polypropylene meltblown filter media. It's all polypropylene construction provides excellent compatibility with Solvent, acids and basis.



Features & Benefits

- > 7.4ft² of effective Filtration Area (EFA) per 10" element - provides superior flow rates and dirt holding capacity and fewer change-outs. 25% more surface area than the industry norm.
- Beta 5000 (99.98% efficiency) - absolute rating provides reliable and consistent filtration required in critical applications.
- Gradient pore sized media layering - provides built-in prefiltration that extends filter life.
- Fixed pore size filtration media - resists unloading of contaminants as pressure differential increases.
- Heavy duty cage and core - provides superior structural integrity under harsh conditions.
- Manufactured and assembled in a clean room environment to ensure purity when placed into service.
- Optional 18 MΩ flush adder available.
- Optional factory integrity test adder available.

Typical Applications

- Fine and specialty chemicals
- Plating baths
- Food & Beverage
- Ultrapure water
- Pharmaceuticals
- Solvents
- Acids
- Bases
- Bottled water
- Etch baths

Certifications

- USP Class VI: Meets USP Class VI Biological Test for Plastics
- FDA listed Materials: All materials comply with FDA Title 21 of the Code of Federal Regulations Sections 174.5, and 177.1520, as applicable for food and beverage contact.

Specifications

Materials of Construction	
Filter Medium	Polypropylene Nano Fiber
Support Layers	Polypropylene
Support Hardware	Polypropylene
Core	Polypropylene/ Glass fiber reinforce Polypropylene
End Caps	Polypropylene/ SS 316L
Sealing	Silicone/ EPDM/ FKM/ NBR/ PFA Encapsulated FKM/ PFA encapsulated Silicone
Contains no adhesives	

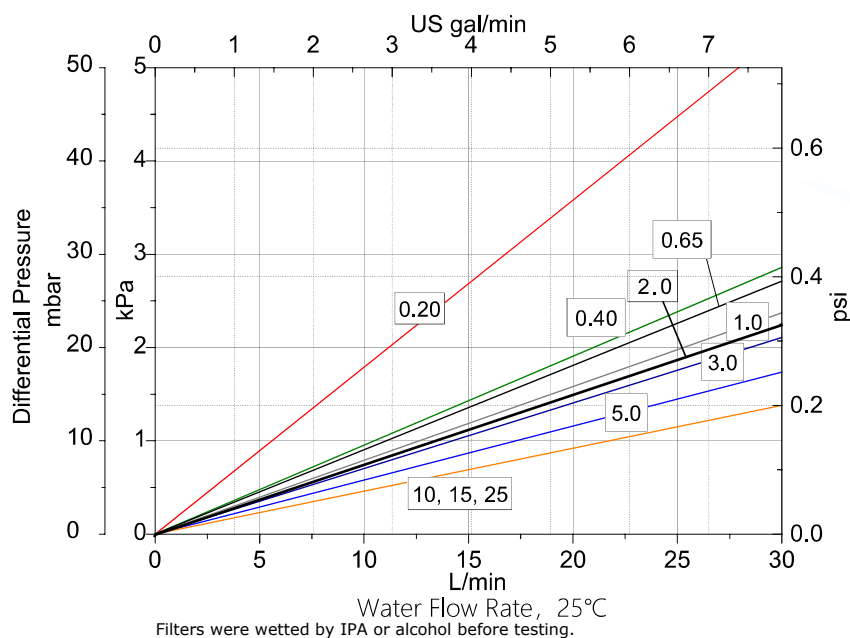
Filter Dimensions	
Outer Diameter	2-11/16in (68mm)
Inner Diameter	1-1/4in (33mm)
Nominal Length	10in (250mm), 20in (500mm) 30in (750mm), 40in (1000mm)
Steam Sterilization	
121°C/250°F / 30 min	
Micron Ratings	
0.20µm, 0.40µm, 0.65µm, 1.0µm, 3.0µm, 5.0µm, 10µm, 15µm, 25µm	

PolyPure-AB Performance Data

Operating Parameters

Temperature	Max. Forward dP			Max. Reverse dP
	PP	Reinfore PP	GF Reinfore PP	
20° C/68° F	690kPa/100psi	690kPa/100psi	690kPa/100psi	450kPa/65psi
40° C/104° F	600kPa/87psi	690kPa/100psi	690kPa/100psi	400kPa/58psi
60° C/140° F	360kPa/52psi	690kPa/100psi	690kPa/100psi	350kPa/51psi
80° C/176° F	270kPa/39psi	500kPa/72psi	690kPa/100psi	160kPa/23psi
90° C/194° F	250kPa/37psi	450kPa/65psi	690kPa/100psi	140kPa/20psi

Flow Rate-Pressure Drop



Particle Removal Efficiency

Removal Rating	$\beta = 5000$	$\beta = 1000$	$\beta = 100$
	99.98%	99.9%	99%
0.2 μm	0.2	< 0.2	< 0.1
0.4 μm	0.4	0.2	< 0.1
1.0 μm	1.0	0.4	0.1
2.0 μm	2.0	1.0	0.1
3.0 μm	3.0	1.4	0.1
5.0 μm	5.0	1.8	0.15
10 μm	10	2	0.25
15 μm	15	4	0.35
25 μm	25	7	0.8

Testing was conducted using the single-pass test method, water flow rate at 10 lpm (2.6 gpm)/10" cartridge filter. Contaminants included coarse and fine test dust. Removal efficiencies were determined using laser particle counters.

Part Number Matrix

Filter Media	Length	Pore Size	Adaptor	Sealing	Core
CRPPA: Polypropylene	005 = 5 inches 010 = 10 inches 020 = 20 inches 030 = 30 inches 040 = 40 inches	020 = 0.20 μm 045 = 0.45 μm 065 = 0.65 μm 100 = 1.0 μm 200 = 2.0 μm 300 = 3.0 μm 500 = 5.0 μm H10 = 10 μm H15 = 15 μm H25 = 25 μm	0 = DOE 2 = 222/Flat 3 = 222/Fin 4 = 222/Fin w/ SS insert 5 = 226/Fin w/ SS insert 6 = 226/Fin 7 = 226/Flat K = 222/Fin, 3-way bayonet, SS insert	S = Silicone E = EPDM V = FKM N = NBR PV = PFA Encapsulated FKM PS = PFA Encapsulated Silicone	Blank = PP T = Reinforce PP R = GF Reinforce PP

Contact Pure GmbH for flush options