



PolyPure-AB PP E-Class

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 solvents, acids and basis.

Features & Benefits:

- >7.5ft² of Effective Filtration Area (EFA) per 10" element - provides superior flow rates and dirt holding capacity and fewer change-outs. More than 25% EFA 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 18MΩ flush adder - to ensure additional in-service purity and shorten rinse up time.
- Optional factory integrity test adder available.



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: Nano Polypropylene
- Inner support core: Reinforce Polypropylene
- Outer protection cage: Reinforce Polypropylene
- End caps: Reinforce Polypropylene

» Dimensions:

- Outside Diameter: 2-11/16in (68 mm)
- Inside Diameter: 1-1/4 in (33 mm)
- Nominal Length: 10in (250mm), 20in (500mm), 30in (750mm), 40in (1000mm)

» Recommended Operating Conditions:

- Maximum Temperature: 80°C ≤ 2.4Bar (35psid);
- Maximum Differential Pressure: 5.5bar (80psi) @ 21 °C
3.4bar (50psi) @ 70 °F (66 °C)

» Seal Materials:

- O-Rings: Silicone/Viton/NBR/EPDM/Teflon Encapsulated Viton/
Teflon Encapsulated Silicone
- Gasket: Silicone/Viton/NBR/EPDM
- Construction Method: Weld (No adhesives)

» Effective Filtration Area:

- 7.53ft²/10 inch length (0.7m²/250 mm)

» Steam sterilization: 121°C / 30 min

» Micron Ratings:

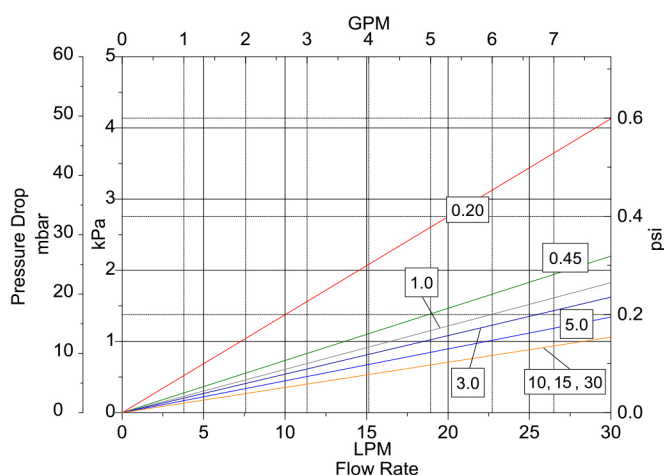
- 0.2µm, 0.45µm, 1µm, 3µm, 5µm, 10µm, 15µm, 30µm

» Filtration Efficiency: ≥99.98%



PolyPure-AB PP E-Class Performance Data

Water Flow Rate



Retention Efficiency

	$\beta=5000$	$\beta=1000$	$\beta=100$
Removal Rating	99.98%	99.90%	99%
0.2 μ m	0.2	<0.2	<0.1
0.45 μ m	0.4	0.2	<0.1
1.0 μ m	0.8	0.4	<0.1
3.0 μ m	3	1.4	<0.1
5.0 μ m	4	1.8	0.15
10 μ m	7	2	0.25
15 μ m	15	4	0.35
30 μ m	30	7	0.8

Cleanliness*

TOC Recovery	< 10 ppb after flushed with 10L DI water
Resistivity Rinse-up	> 16 M Ω after flushed with 10L DI water
NVR	< 15 mg/10"

Ordering Information

