



Life Sciences

USD2293⁽²⁾

Supor® EAV Membrane Filter Cartridges



High-throughput, high-flow rate sterilizing grade filters designed for effective bioburden and particle control

Features

- ▶ Hydrophilic, controlled asymmetric polyethersulfone membrane
- ▶ Bacterial titer reduction in excess of 6 log for *Brevundimonas diminuta*
- ▶ Low binding polyethersulfone membrane
- ▶ High membrane area with laid-over pleat construction combined with a narrow diameter core

Benefits

- ▶ Ensures high microbial and particulate reduction with outstanding service life
- ▶ Ensures low bioburden levels in filtrate regardless of bacterial loading
- ▶ Allows maximum transmission of proteins
- ▶ Guarantees high flow rates, increased robustness and smaller multi-cartridge assemblies

Filtration. Separation. Solution.SM

Specifications

Materials Of Construction

Membrane	Single layer of hydrophilic, asymmetric polyethersulfone (nominal 0.2 µm particulate rating)
Drainage Layers	Polypropylene
Core, End Caps, Cage, Fin	Polypropylene ¹
Adapter	Polypropylene with internal reinforcing ring
O-rings	Silicone elastomer

¹ Cage contains TiO₂ whitener which does not contribute to organic extractables

Operating Parameters²

Maximum Differential Pressure	5.5 bar (80 psi) at 40 °C
(Forward Direction)	3.0 bar (43.5 psi) at 80 °C

² In compatible fluids which do not soften, swell or adversely affect the filter or its materials of construction

Sterilization

In Situ Steam ³	10 x 60-minute cycles at 125°C
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³ With a 30 minute air cooling cycle after each cycle. Maximum differential pressure 300 mbar (4.35 psi) in forward direction; 200 mbar (2.9 psi) in reverse direction. Steam life and service life data were determined by testing under controlled laboratory conditions up to the time indicated. Actual operating conditions may affect the filter's long term resistance to steam sterilization and hot air service. Filters should be qualified for each process application

Typical Non Volatile Residue (NVR)

Extractables in Water at 20°C⁴

<50 mg NVR after 4 hours extraction (per 10 in. cartridge)

⁴ Tested on elements without pre-flushing after 1 x 60-minute autoclave cycle at 125°C

Nominal Effective Filter Area (EFA)

127 mm (5 in.) cartridge	Typically 0.51 m ² (5.5 ft ²)
254 mm (10 in.) cartridge	Typically 1.06 m ² (11.4 ft ²)
508 mm (20 in.) cartridge	Typically 2.12 m ² (22.8 ft ²)
762 mm (30 in.) cartridge	Typically 3.18 m ² (34.2 ft ²)
1016 mm (40 in.) cartridge	Typically 4.24 m ² (45.6 ft ²)

Integrity Test Values (Test gas: air, water wet)*




Max. allowable Forward Flow <50 mL/min at 2060 mbar (30 psi)

* Preflush at 5 L/min per module for 10 minutes prior to Forward Flow testing. Please contact Pall for multi-element integrity test values. Values are for one 254 mm (10 inch) filter at 20°C

Flow Rates

Typically 20 L / minute / 254 mm (10 in.) element at 100 mbard

Ordering Information⁵

AB 	UEAV 	P 			
Code	Nominal Length	Code	Cartridge Style	Code	O-ring Material
05	127 mm (5 in.)	2	Double O-ring with bayonet lock and flat end	H4	Silicone
1	254 mm (10 in.)	7	Double O-ring with bayonet lock and finned end	J	EPR
2	508 mm (20 in.)				
3	762 mm (30 in.)				
4	1016mm (40 in.)				

⁵This is a guide to the part number structure only. For availability of specific options, please contact Pall or your local Pall distributor



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