

Emflon® Filter



Description

The Emflon filter is recommended for chemicals which are compatible with PTFE and polypropylene.

- Wide range of configurations
- Five removal ratings
- High flow rates
- Integrity testable
- Low extractables
- Optimized design
- Manufactured in a cleanroom environment
- 100% integrity tested

Specifications

Materials

- Medium: PTFE
- Core, cage, and end caps: Polypropylene
- Support and drainage: Polypropylene
- O-ring options: Viton¹ and Teflon encapsulated Viton

Removal Ratings

- 5.0 µm, 1.0 µm, 0.2 µm, 0.1 µm, 0.05 µm

Filter Areas

- 10" / 254 mm: 9.45 ft² / 0.88 m²
- 20" / 508 mm: 18.90 ft² / 1.76 m²
- 30" / 762 mm: 28.35 ft² / 2.64 m²
- 40" / 1016 mm: 37.80 ft² / 3.52 m²

Configurations

- Nominal length: 10" / 254 mm, 20" / 508 mm, 30" / 762 mm, and 40" / 1016 mm
- Diameter: 2.75" / 70 mm
- O-ring size / end caps:
 - Code 3 (222 double O-ring / flat end)
 - Code 8 (222 double O-ring / finned end)
 - Code 7 (226 double O-ring bayonet lock / finned end)

Operating Conditions

- Maximum Operating Temperature: 194°F / 90°C
- Maximum Forward Differential Pressure:
 - 80 psid @ 120°F / 5.5 bar @ 50°C;
 - 50 psid @ 121° - 195°F / 3.5 bar @ 51° - 90°C

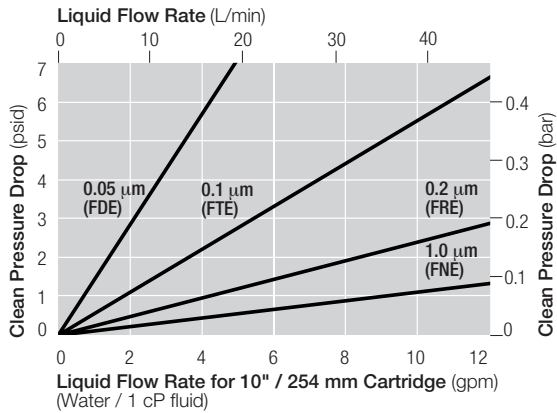
Integrity Test Values²

- Per 10" / 254 mm segment
- 0.05 µm: < 45 mL / min @ 35 psig / 2.4 bar
 - 0.1 µm: < 64 mL / min @ 19 psig / 1.3 bar
 - 0.2 µm: < 32 mL / min @ 11 psig / 0.76 bar

¹ Viton and Teflon are trademarks of DuPont Dow Elastomers

² Test fluid used is 60:40, IPA:H₂O.

Pressure Drop vs. Liquid Flow Rate³



Cartridge Style AB1

³ For liquids with viscosity differing from water, multiply the pressure drop by the viscosity in centipoise.

Part Numbers / Ordering Information

Part Number ⁴	Removal Rating (μm)	Nominal Length (in / mm)	Configuration Code	O-Ring Material ⁵
AB1FC8EJ	5.0	10 / 254	8	Ethylene Propylene
AB1FN3EH1	1.0	10 / 254	3	Teflon Encapsulated Viton
AB1FN3EHF	1.0	10 / 254	3	Viton A
AB1FR3EH1	0.2	10 / 254	3	Teflon Encapsulated Viton
AB1FR3EHF	0.2	10 / 254	3	Viton A
AB1FR7EH1	0.2	10 / 254	7	Teflon Encapsulated Viton
AB1FR8EH1	0.2	10 / 254	8	Teflon Encapsulated Viton
AB1FR8EHF	0.2	10 / 254	8	Viton A
AB2FR3EH1	0.2	20 / 508	3	Teflon Encapsulated Viton
AB2FR3EHF	0.2	20 / 508	3	Viton A
AB2FR8EHF	0.2	20 / 508	8	Viton A
AB3FR3EH1	0.2	30 / 762	3	Teflon Encapsulated Viton
AB1FT3EH1	0.1	10 / 254	3	Teflon Encapsulated Viton
AB1FT3EHF	0.1	10 / 254	3	Viton A
AB2FT3EH1	0.1	20 / 508	3	Teflon Encapsulated Viton
AB3FT3EH1	0.1	30 / 762	3	Teflon Encapsulated Viton
AB1FD8EH1	0.05	10 / 254	8	Teflon Encapsulated Viton
AB2FD3EH1	0.05	20 / 508	3	Teflon Encapsulated Viton
AB3FD3EH1	0.05	30 / 762	3	Teflon Encapsulated Viton

⁴ For prewet option add -K3 to end of part number.

⁵ Other O-ring materials are available.

Unit conversion: 1 bar = 100 kilopascals



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