

FE-S Pleated Filters

■ Features and Benefits

Memtrex FE-S (MFE-S) filters are sterilizing (S) grade cartridge filters for use in validated applications. The commitment to validation by Osmonics is based upon the FDA Guidelines that we “establish documented evidence of assurance that a specific process will consistently produce a product meeting its predetermined specification and quality attributes.”

A detailed Validation Guide is available from Osmonics to document our rigorous testing for your records and reviews. The guide includes all the data necessary to assist the user with compliance to regulatory requirements.

The MFE-S filter is just one example of our strong commitment to the pharmaceutical industry. Our complete portfolio includes filters for every stage of processing, and we offer custom solutions for your unique applications. Osmonics is your complete source for filters, crossflow membranes, housings and other filtration equipment.

■ Applications

FE-S filters are specifically designed for sterile chemical, air, gas and vent filtration. Typical applications include:

- Tank Venting
- WFI Tanks
- Chemicals
- Fermentation Air Supply
- Autoclaves
- Bioreactors

■ Available Absolute Pore Size Ratings

- 0.2 μm

■ Materials of Construction

- Media.....Hydrophobic PTFE
- Support Layers.....Polypropylene Microfiber
- Core and Cage.....Polypropylene
- Endcaps and Adapters.....Polypropylene with Stainless Steel Insert

■ Dimensions

Nominal O.D.	Nominal I.D.	Effective Filtration Area
2.75" (70 mm)	1.25" (31 mm)	8.7 ft ² (0.8 m ²)

■ Integrity Testing

Air diffusion per 10" module after saturation with 60% IPA/40% water (by volume) solution.
 ≤ 10cc/min at 13 psig (0.90 bar)

■ Operational Limits

- Maximum Forward Differential Pressure60 psi (4.14 bar)
- Maximum Reverse Differential Pressure30 psi (2.07 bar)
- Maximum Operating Temperature.....180°F (82°C) at 10 psid (0.69 bar) in water

Memtrex FE-S (MFE-S) validatable sterilizing grade cartridge filters are designed for sterile venting and final filtration of pharmaceutical fluids.



Sterilization

Memtrex FE-S filters may be autoclaved (121°C, 30 minute cycles) or in situ steam sterilized (125°C, 30 minute cycles) for a maximum accumulated exposure of 10 hours. Alternatively, the filters may be sanitized with compatible chemical agents.

Biosafety

The component materials of Memtrex FE-S filters are suitable for use in articles intended for repeated food contact as specified in the United States Code of Federal Regulations, Title 21. Memtrex FE-S filters meet the test criteria for USP24 class VI-121°C Plastics and pass the MEM Elution Cytotoxicity Test.

Extractables

Aqueous extracts from Memtrex FE-S filters contain less than 0.25 EU/ml. The filters typically exhibit low levels of non-volatile residues.

Ordering Information

Type	Absolute Micron Rating	Nominal Cartridge Length	End #1 Adapter	End #2 Adapter	Elastomer Material	Grade
MFE	92 = 0.2mm	1 = 10 Inch 2 = 20 Inch 3 = 30 Inch 4 = 40 Inch	Q = 222 O-Ring Adapter Stainless Steel Insert Z = 226 O-Ring Adapter Stainless Steel Insert	G = Closed End Cap H = Fin Adapter	S = Silicone	S = Sterilizing

For More Information:

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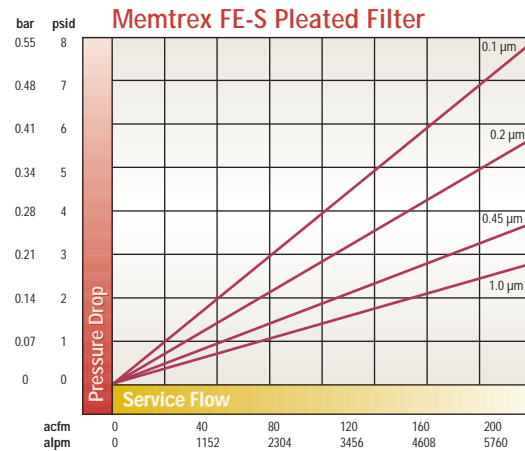
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Flow Performance in Clean Air



Flow Performance in Clean Water

