

MP Pleated Filters



Memtrex-MP (MMP) cartridge filters employ unique asymmetric polyethersulfone membranes that ensure consistent particle retention, low pressure drops at high flow rates, and exceptional service life.

■ Features and Benefits

Memtrex-MP (MMP) filters, constructed with hydrophilic polyethersulfone membranes and all polypropylene components, exhibit both enhanced throughput and reliable particle retention for superior performance in most applications. MMP filters are compatible with a broad range of chemicals and pH extremes. The low protein binding characteristics of the polyethersulfone membranes ensure that the MMP filters are suitable in a variety of beverage, chemical and pharmaceutical applications. Constructed in a clean room environment using thermal welding techniques, the MMP filters do not contain any adhesives or additives. As part of the manufacturing process, the MMP filters are individually integrity tested.

The MMP filter is just one example of our dedicated commitment to fluid filtration. Our extensive portfolio includes filters for every stage of processing, and we can offer custom solutions for your unique applications. Osmonics is your complete source for filters, housings, and other filtration equipment.

■ Applications

MMP filters are suitable for a broad range of applications, including:

- Filtration of inks and dyes
- Filtration of acids, bases, and oxidants
- Filtration of process water
- Filtration of pharmaceutical preparations
- Filtration of serums and tissue culture media

■ Available Absolute Pore Size Ratings

- 0.1, 0.2, 0.45, and 0.65 μm

■ Materials of Construction

- Filtration MediaHydrophilic Polyethersulfone Membrane
- Support LayersPolypropylene Microfiber
- Core and CagePolypropylene
- Endcaps and AdaptersPolypropylene

■ Dimensions

Nominal O.D.	Nominal I.D.	Effective Filtration Area
2.75" (70mm)	1.25" (31mm)	6.9 ft ² (0.64 m ²)

■ Integrity Testing

Air diffusion per 10" module after saturation with clean water.

Pore Size Rating	Specification
0.1 μm	≤ 20 cc/min at 40 psig (2.76 bar)
0.2 μm	≤ 12 cc/min at 30 psig (2.07 bar)
0.45 μm	≤ 10 cc/min at 20 psig (1.38 bar)
0.65 μm	≤ 5 cc/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

Sterilization

Memtrex-MP 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.

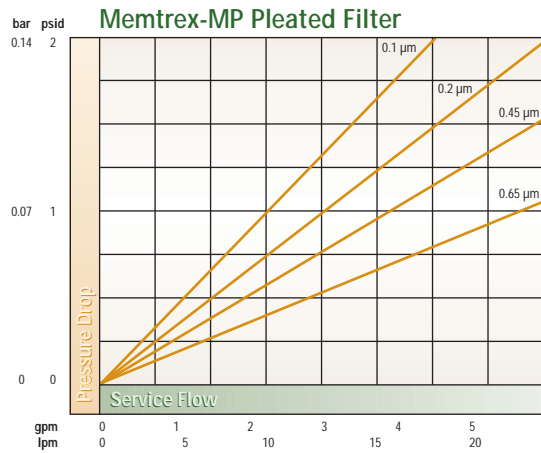
Biosafety

The component materials of Memtrex-MP 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-MP filters meet the test criteria for USP24 Class VI-121°C Plastics and pass the MEM Elution Cytotoxicity Test.

Extractables

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

Flow Performance in Clean Water



Ordering Information

Type	Absolute Micron Rating	Nominal Cartridge Length	End #1 Adapter	End #2 Adapter	Elastomer Material
MMP	91 = 0.1 µm 92 = 0.2 µm 94 = 0.45 µm 96 = 0.65 µm	1 = 10 Inch 2 = 20 Inch 3 = 30 Inch 4 = 40 Inch	A = Open End Gasket B = 120 O-Ring C = 213 O-Ring E = 222 O-Ring F = 226 O-Ring J = 020 O-Ring Q = 222 O-Ring Stainless Steel Support Ring Z = 226 O-Ring Stainless Steel Support Ring	A = Open End Gasket B = 120 O-Ring C = 213 O-Ring G = Closed End Cap H = Fin Adapter	B = Buna-N E = EPDM S = Silicone T = Teflon* Encapsulated (Only in 222 and 226 Sizes) V = Viton*

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For More Information:

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