

Memtrex* HFE - Halar PTFE

All Fluoropolymer Pleated Cartridge

Features and Benefits

Memtrex HFE (MHFE) are made entirely from fluoropolymer materials including Halar (ECTFE) (Halar is a trademark of Ausimont.), and PTFE. Halar is an industrial-grade fluoropolymer with excellent solvent resistance. MHFE filters can withstand the harshest process conditions due to its construction using these highly resistant materials. Providing broad chemical compatibility, you can count on our filters to produce consistent, uniform process streams in your most demanding filtration applications. MHFE deliver high flow rates and high-purity results with absolute rated efficiencies (99.9% filtration efficiency at rated pore size based on ASTM F795 and F661 test methods) and retention characteristics that outperform other filters. The MHFE filter is just one example of our strong commitment to fluid treatment. Our complete portfolio includes filters for every stage of processing, and we offer custom solutions for your unique applications. GE Water & Process Technologies is your complete source for filters, crossflow membranes, housings, and other filtration equipment.

Typical Application

MHFE all fluoropolymer filters offer outstanding performance in extremely harsh chemical environments. MHFE filters are manufactured and packaged in a cleanroom environment for assured cleanliness. Typical applications include:

- Chemicals
- Microelectronics
- Pharmaceuticals



Materials of Construction

- Core and cage: Halar (ECTFE)
- Support layer: Halar (ECTFE)
- Membrane: ePTFE
- End caps: Halar (ECTFE)

Micron Ratings and Dimensions

- Micron ratings 0.05, 0.1, 0.2, 0.45 micron
- Nominal O.D. 2.75"
- Nominal I.D. 1.25"
- Ozonated water



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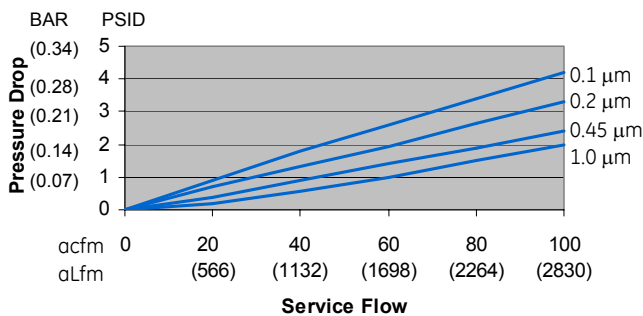
Operational Limits

- Maximum forward differential pressure – 60 psi (4.14 bar) at 70 F (21 C)
- Maximum reverse differential pressure – 30 psi (2.07 bar) at 70 F (21 C)
- Maximum operating temperature – 205°F (96.1°C) at 25 psid (1.7 bar)

Integrity Testing

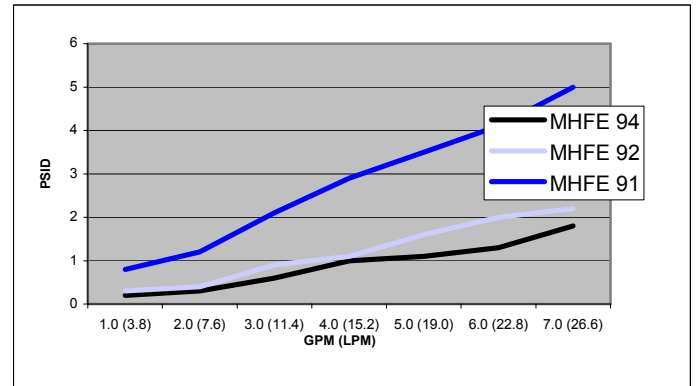
- 0.1 µm ≤ 5 cc / min at 40 psig (2.76 bar)
- 0.2 µm ≤ 5 cc / min at 30 psig (2.07 bar)
- 0.45 µm ≤ 5 cc / min at 20 psig (1.38 bar)

MHFE Flow Performance in Clean Air¹



¹Data based on 10" length filter

MHFE Flow Performance in Clean Water¹



¹Data based upon 10" length filter.

Additional Information

- GE certifies that the material contained in its Memtrex MHFE pleated filters meet US FDA requirements for food contact under the applicable regulations in 21 CFR. For further information, contact GE technical services. Memtrex MHFE filters meet the test criteria for USP class VI- 121°C Plastics
- GE filter cartridges are designed and manufactured for resistance to a wide range of chemical solutions. Conditions will vary with each application and users should carefully verify chemical compatibility. Please contact your GE distributor for more information.

Ordering Information

Type	Absolute Micron Rating	Nominal Cartridge Length	End #1 Adapter	End #2 Adapter	Elastomer Material	Product Grade
MHFE	85= 0.05 µm	1 = 10 in (25 cm)	A = Open End Gasket	A = Open End Gasket	T = Teflon ² Encapsulated Viton ²	E = Electronic grade rinse Pre Wet = E grade rinsed and packed wet
	91 = 0.1 µm	2 = 20 in (51 cm)	E = 222 O-Ring	G = Closed End Cap		
	92 = 0.2 µm	3 = 30 in (76 cm)	F = 226 O-Ring	H = Fin Adapter		
	94 = 0.45 µm	4 = 40 in (102 cm)				

I.D. = 1.25 in (3.2 cm)
O.D. = 2.75 in (7.0 cm)

²Teflon and Viton are a registered trademark of DuPont.

