

Memtrex* NY FACT SHEET

Pleated Filters with Hydrophilic Nylon 66 Membrane



Figure 1: Memtrex NY filters

Description and Use

Memtrex NY (MNY) filters (figure 1) are uniquely constructed for superior performance with a serial membrane layer design that incorporates a large pore-size membrane layer upstream of the final membrane layer. The first membrane acts like a prefilter to increase the life and efficiency of the cartridge. It is also highly effective in retaining difficult contaminants such as gelatinous particles. The final membrane layer ensures consistent retention characteristics.

MNY filters are designed to ensure maximum downstream cleanliness. Veolia's Nylon 66 membranes are naturally hydrophilic, non-shedding and do not contain leachable wetting agents. Thermoplastic sealing technologies are used in the cartridge construction eliminating the need for potentially contaminating adhesives. Each cartridge is manufactured under strict production control and is individually integrity tested. Veolia is your complete source for filters, crossflow membranes, housings and other filtration equipment.

Typical Applications

MNY filters have excellent chemical compatibility making them the ideal choice for a broad range of applications such as high purity water, strong solvents, photoresists and other critical process fluid systems. Typical applications include:

- Filtration of pharmaceuticals intermediates
- Filtration of positive photoresists
- Final filtration of beverages

General Properties

Memtrex NY filters are available the following absolute pore size micron ratings: 0.1, 0.2, 0.45, 0.65 and $1.0 \ \mu$ m. Tables 1, 2, 3, 4 and 5 show further details on materials of construction, dimensions, operational limits, integrity testing and flow performance.

Table 1: Materials of Construction

Description	Material of Construction	
Media	2 layers of Nylon 66 Membrane (prefilter layer over final layer)	
Support Layers	Polyester Microfiber	
Core and Cage	Polypropylene	
Endcaps and Adapters	Polyester	

Table 2: Dimensions

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

WATER TECHNOLOGIES

Table 3: Operational Limits

Description	Operational Limits	
Maximum Forward	60 psi (4.1 bar) at 70ºF	
Differential Pressure	(21ºC)	
Maximum Reverse	30 psi (2.1 bar) at 70ºF	
Differential Pressure	(21ºC)	
Maximum Operating	180ºF (82ºC) at 10 psid	
Temperature	(0.7 bar) in water	

Table 4: Integrity Testing

Micron Rating	Specification
0.1 µm	≤ 50 cc/min at 40 psig (2.76 bar)
0.2 µm	≤ 50 cc/min at 30 psig (2.07 bar)
0.45 µm	≤ 50 cc/min at 15 psig (1.03 bar)
0.65 µm	≤ 50 cc/min at 12 psig (0.83 bar)
1.0 µm	≤ 50 cc/min at 5 psig (0.34 bar)

Air diffusion per 10" module after saturation with clean water

Table 5: Flow Performance in Clean Water¹



Table 6: Ordering Information

Additional Information

- Memtrex NY filters may be autoclaved or in situ steam sterilized (up to 257°F [125°C], 30-minute cycles) for a maximum accumulated exposure of 10 hours. Alternately, the filters may be sanitized with compatible chemical agents.
- Veolia certifies that the material contained in its Memtrex NY pleated filters meet U.S. FDA requirements for food contact under the applicable regulations in 21 CFR. For further information, contact Veolia technical services. Memtrex NY filters meet the test criteria for USP class VI-121°C Plastics.
- Aqueous extracts from Memtrex NY filters contain less than 0.25 EU/ml. The filters typically exhibit low levels of non-volatile residues.
- Veolia 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 Veolia distributor for more information.
- Table 6 provides additional ordering information.

Туре	Micron Rating	Nominal Cartridge Length	End #1 Adapter	End #2 Adapter	Elastomer Material
MNY	91 = 0.1 μm 92 = 0.2 μm 94 = 0.45 μm 96 = 0.65 μm 01 = 1.0 μm	1 = 10 in. (25.4 cm) 2 = 20 in. (50.8 cm) 3 = 30 in. (76 cm) 4 = 40 in. (101.5 cm)		A = Open End Gasket B = 120 O-Ring C = 213 O-Ring G = Closed End Cap H = Fin Adapter	$\begin{array}{llllllllllllllllllllllllllllllllllll$

²Teflon and Viton (trademarks of DuPont.)



