

3M™ LifeASSURE™ MFE Series PTFE Membrane Filter Cartridges

3M™ LifeASSURE™ MFE Series Filter Cartridges have been designed for high-purity chemicals used in the electronics industry. The hydrophobic PTFE membrane in an all polypropylene construction provides excellent chemical resistance and high efficiency contaminant reduction for acids, bases, solvents and photo-chemicals used in the semiconductor, video display and hard drive industries. After manufacture and assembly, cartridges are rinsed with 18 megohm-cm DI water in a clean environment under an ISO-certified quality system to provide downstream cleanliness and then double-bagged. No pre-wetting is required for solvent based chemicals.

Features & Benefits

PTFE and Polypropylene Materials of Construction

- Robust materials provide excellent resistance in aggressive chemicals and/or dynamic pressure applications

Radial Pleat Construction

- Provides a low differential pressure to minimize bubble formation
- Increased throughput and long filter life

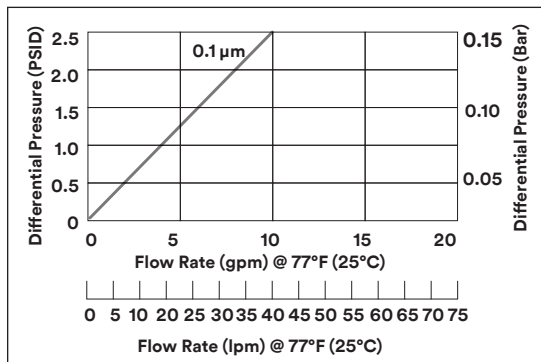


Chart 1: 3M™ LifeASSURE™ MFE Series Flow Rate vs. Differential Pressure

Applications

- Acids
- Bases
- Solvents
- Photoresists
- Anti-reflective coatings
- Plating solutions
- Glass substrates
- Hard disk drives

Intended Use(s): 3M™ LifeASSURE™ MFE Series Filter Cartridges are intended for use in industrial filtration applications of aqueous fluids in accordance with the applicable product instructions and specifications. 3M LifeASSURE MFE Series Filter Cartridges are also intended for use with non-aqueous fluids where materials of construction are compatible. Since there are many factors that can affect a product's use, the customer and user remain responsible for determining whether the 3M product is suitable and appropriate for the user's specific application, including user conducting an appropriate risk assessment and evaluating the 3M product in user's application.

Restrictions on Use: 3M advises against the use of these 3M products in any application other than the stated intended use(s), since other applications have not been evaluated by 3M and may result in an unsafe or unintended condition. Do not use the 3M product, in a medical device, drug, or cosmetic application; or in applications involving life-sustaining medical applications or prolonged contact with internal bodily fluids or tissues. If you are considering using this 3M product for a restricted use, you must first contact 3M with information about your proposed application to request prior written authorization for supply for such use. 3M LifeASSURE MFE Series Filter Cartridges are not for use in food contact applications.

Materials of Construction

3M™ LifeASSURE™ MFE Series Filter Cartridges are constructed of high efficiency hydrophobic PTFE membrane. The outer cage, inner core, end cap adapters and membrane support layers are made of polypropylene and no adhesives, binders, or surfactants are used in the manufacturing process. Filter cartridges are manufactured and double bagged in a clean environment under an ISO quality system. All MFE series cartridges are rinsed with 18 megohm-cm DI water and integrity tested.

Specifications	
Membrane Material	Hydrophobic PTFE
Outer Cage, Inner Core, End Cap Adapters, Membrane Support Layer	Polypropylene
Filtration Surface Area	11.0 ft. ² (1.02m ²)
Outside Diameter	Nominal 2.75 in. (7cm)
Length	10 in. (25.4cm), 20 in. (50.8cm)
Maximum Forward Differential Pressure	80 psid @ 77°F (5.5 bar @ 25°C) 25 psid @ 176°F (1.7 bar @ 80°C)
Maximum Operating Temperature	176°F (80°C)
Reduction Ratings	0.1µm

3M™ LifeASSURE™ MFE Series Filter Cartridges Ordering Guide

Model Number	3M ID	Global ID	Description		
			Length	Grade	End Treatments
MFE010A01BB	70-0203-5027-1	7100194334	10 in.	0.1µm	226/Spear Fluorocarbon
MFE010A02BB	70-0201-6865-7	7010338504	20 in.	0.1µm	226/Spear Fluorocarbon
MFE010A02CK	70-0201-6976-2	7100004486	20 in.	0.1µm	222/Spear PTFE Encapsulated Fluorocarbon

Product Selection and Use

Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. As a result, customer is solely responsible for evaluating the product and determining whether it is appropriate and suitable for customer's application, including conducting a workplace hazard assessment and reviewing all applicable regulations and standards (e.g., OSHA, ANSI, etc.). Failure to properly evaluate, select, and use a 3M product and appropriate safety products, or to meet all applicable safety regulations, may result in injury, sickness, death, and/or harm to property.

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Limitation of Liability

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