Industrial filtration

LifeASSURE MFE filter cartridges

PTFE Membrane filter cartridges

Thermo Scientific™ LifeASSURE™ MFE 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, packaged 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.



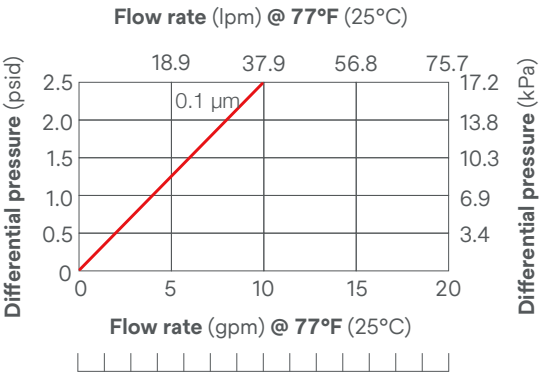
Features and benefits

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



Applications

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

Materials of construction

LifeASSURE MFE 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-certified quality system.

Specifications	
Membrane material	Hydrophobic PTFE
Outer cage, inner core, end cap adapters, membrane support layer	Polypropylene
Filtration surface area	11.0 ft^2 (1.02 m^2)
Outside diameter	Nominal 2.75 in (7 cm)
Length	10 in (25.4 cm), 20 in (50.8 cm)
Maximum forward differential pressure	80 psid @ 77°F (551.6 kPa @ 25°C) 25 psid @ 176°F (172.4 kPa @ 25°C)
Maximum operating temperature	176°F (80°C)
Reduction ratings	0.1 µm

LifeASSURE MFE filter cartridges ordering guide

Cartridge type	Grade code	Grade rating (µm)	Configuration	Length (inches)	End modification	Gasket/O-ring material
MFE	010	0.10	A	01 / 10 in 02 / 20 in	B - 226 O-ring & spear C - 222 O-ring & spear F - 222 O-ring & flat cap	A - Silicone B - Fluorocarbon K - PTFE

47mm discs available for lab evaluation.
Please consult with your Thermo Fisher Scientific representative to determine the approriate part number for your application.

Thermo Scientific™ LifeASSURE™ MFE Filter Capsules ordering guide

Model number	Grade code	Grade rating (µm)	Configuration	Length (inches)	In/out connection	Gasket/O-ring material
MFE	010	0.10	J	25 / 2.5 in	A - 1.5-inch sanitary flange	C - EPR

Model number example: MFE010J25AC01: 2.5-inch capsule, 1.5-inch sanitary in/out, EPR

Intended Use: LifeASSURE MFE filter cartridge and capsule products are intended for use in industrial, chemical and electronics filtration applications of aqueous and non-aqueous fluids in accordance with the product instructions, specifications and 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 Thermo Scientific product is suitable and appropriate for the user's specific application, including user risk assessments and evaluation of the Thermo Scientific product in the user's application.

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LifeASSURE MFE filter cartridge and capsule products are not for use in food contact applications.

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