

amcFluoroGuard E

Cartridges-Hydrophobic PTFE Filters



The electronics-grade amcFluoroGuard E cartridge filters are specifically designed for high purity filtration of critical process fluids for the microelectronic industry. Manufactured of just two components-unsupported polytetrafluoroethylene membrane and high grade of polypropylene—its clean construction means low extractables and clean filtrate. Each 10 inch cartridge houses nearly 10 square feet of chemically inert polytetrafluoroethylene membrane, and is bubble point 100% integrity tested in manufacturing.

amcFluoroGuard E cartridge filters offer an economical alternative to all fluorocarbon filters.

Performance Advantages

- Broad chemical compatibility
- High filtrate purity for maximum yields
- Extremely low extractable levels
- Engineered to withstand shocks, back pressure, and rigors of chemical processing operations
- Thermally imprinted identification for traceability without inks or dyes leaching into press fluids
- Extensive process controls for reliable and consistent lot to lot service

Nominal Pore Size: 0.05, 0.1, 0.2, 0.45, 1, 5 μm

Typical Effective Filtration Area
0.95 m²/10 inch

Maximum Operating Temperature
90°C at 30 psi (2.1 bar)

Maximum Differential Pressure
60 psi (4.1 bar) at ambient temperature

Resistivity Recovery within 18 Mega-ohm :
≤120 L/10 inch length (at 1 L/min flow rate)

Cleanliness
<10 particles/100 mL (>0.5 μm particle after 30 minutes 18 m Ω water flush at 5 L/min flow rate after alcohol wetting)

Typical Applications

- Fine chemical manufacture and distribution: acids, bases, etchants, solvents, photoresists
- Polymer filtration
- Process gases and compressed air

Specifications

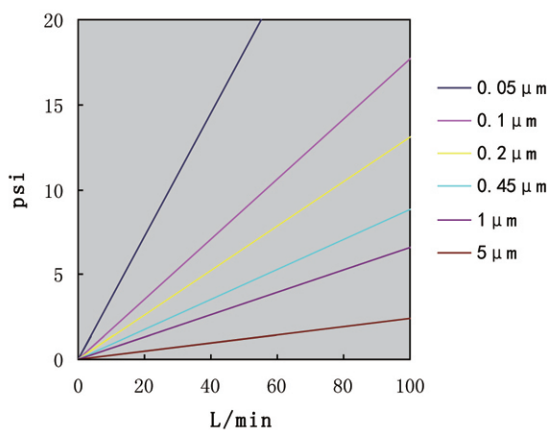
Materials of Construction

- Filter Media: Pleated single layer of unsupported hydrophobic polytetrafluoroethylene
- Support Material: Polypropylene
- Structure Components: Polypropylene
- Sealing Technology: Thermal bonding

Dimensions

- Nominal Length: 10, 20, 30 and 40 inch
(25.4, 50.8, 76.2 and 101.6 cm)
- Diameter: 69 mm

Typical Water Flow Rates (10 inch length) *



*After alcohol rinse followed by water flush

Cartridges Ordering Information



■ Rated Pore Size	50	0.05 μm
	10	0.1 μm
	20	0.2 μm
	45	0.45 μm
	01	1 μm
	05	5 μm

◆ Nominal Length	1	10 inch (25.4 cm)
	2	20 inch (50.8 cm)
	3	30 inch (76.2 cm)
	4	40 inch (101.6 cm)

● Cartridge Configuration	D	SOE, Flat
	F	DOE, Gasket/Gasket 10 inch increments
	M	SOE, -222/Flat
	V	SOE, -226/Flat

▲ Seal Material	S	Silicone
	V	Viton
	E	Ethylene Propylene
	F	FEP Encapsulated