

LiquiPro™ F3

Hydrophobic PTFE Membrane Filters



LiquiPro™ F3 is recommended for a wide range of chemical filtration. LiquiPro™ F3 series filters have enhanced cleanliness and are made of Hydrophobic PTFE membrane for high chemical inertness. Suitable for strong acidic and base solutions.

Features and Benefits

- Enhanced cleanliness from cleanroom manufacturing, cleaning technologies with on-line process QC monitoring and class 100 cleanroom packaging to achieve a cleanliness level previously only achievable with all-Teflon filters.
- Optimised high-porosity, uniform pore-size distribution, large filtration area, low pressure-drop, high flow rate and long service life.
- Hydrophobic (FC) or are made with thermal bonding of PTFE membrane with virgin grade polypropylene support and hardware without adhesives or binders.
- Certificate of quality enclosed with each product lot for quality assurance that ensures filter-to-filter, lot-to-lot performance.
- Fast rinse up time of UHP and E-Grade filters, which has been pre-flushed with UP DI water (18.2 Megaohm-cm, TOC <100 ppb).

Typical Applications

- Advanced wafer bumping, ultra-high-purity chemical manufacturing and OEM using ultra high-purity strong acidic solution and base solutions filtration.
- Solvent, photo chemical and DI water filtration.
- Hot DI Water <=80°C for facility or cleaning bath in semiconductor wafer fabs.
- Etch chemical applications in TFT-LCD and data storage manufacturing.
- Stripper filtration application.
- Electroless copper plating solutions.

Performance Specifications

Pore size rating

0.05, 0.1, 0.2, 0.45, 1, 3, 5, 10 µm

Maximum differential pressure:

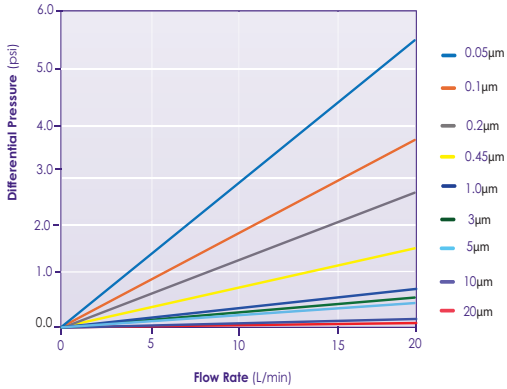
1.37 bard (19.91psid) @ 90°C (194°F)

5.49 bard (79.65 psid) @ 20°C (68°F)

Materials of construction

Filter media:	Polytetrafluoroethylene (PTFE) Hydrophobic membrane
Support:	Virgin grade polypropylene
End caps, core, cage:	Polypropylene
O-rings:	EPDM, FKM, E-FKM

Flow Rates: LiquiPro™ F3 (FC) Flow dP chart



*Flow rate is for a 25.4 cm (10 in) cartridge. For liquids other than water, multiply differential pressure by fluid viscosity (cP).

Ordering Information

To form a part number, please chose one option from each column below.

Product Name	Micron Rating	Adaptor Code	Seals	Cleanliness	Length	Packaging Option
FC: LiquiPro™ F3	005 0.05µm	A 222/Flat	E EPDM	S Class 100 Cleanroom	05 5in	- Standard Dry
FCX: LiquiPro™ F3 (80mm dia)	010 0.1µm	K 226/Flat	T E-FKM	E E-Grade High Purity TOC<100 ppb	10 10in	W Pre-wetted
	020 0.2µm	M DOE	V FKM	U Ultra high purity Metal <40 ppb	20 20in	
	045 0.45µm				30 30in	
	100 1µm					
	300 3µm					
	500 5µm					
	1000 10µm					

Diameter	Code A/K	Code M
5in	Code A/K = 123 mm +/- 2	
10in	Code A/K = 266 mm +/- 2	Code M = 254mm +/- 2 default. Customer to specify length
20in	Code A/K = 506 mm +/- 4	Code M = 508mm +/- 2 default. Customer to specify length
30in	Code A/K = 750 mm +/- 4	