

Microchem™ F16, F40 and N16, N40 Series Filter

Choice of Hydrophobic PTFE or Nylon membrane with HPDE support materials for point-of-use filtration of Photoresists, Photochemicals and Solvents.

- ☑ Provides excellent chemical compatibility to make these filters ideal for point-of-use photochemical filtration applications, including a broad range of photoresists and solvent.
- ☑ PTFE membrane selected for Microchem™ F series is designed for removal of hard particles and small particles from aggressive solvent based photochemical and dye chemical. Pre-wetting with solvent may be required.
- ☑ Nylon membrane selected is designed for the removal of particles, micro gel and soft gel present in most advanced photoresist.
- ☑ 193nm photoresist system consists of typically of solvent, photo acid generator (PAG), acid quenchers, additives and surfactants. Pre-wetting is not required.
- ☑ Microchem™ N series helps to eliminate micro-bridging defects in photo-resist and cone defects in the anti-reflective coatings.

Ultra clean filter design

Filter design and materials selection are optimized to eliminate flexing and shedding to ensure reliable downstream cleanliness.

Available in pore sizes of 0.03µm, 0.05µm, 0.1µm, 0.2µm and 1.0µm

Available in pore sizes to match the specific configuration and flow needs of your system. Excellent small particle retention ensures minimal particles on wafer.

Performance Specifications

Pore size rating:

0.03, 0.05, 0.1, 0.2, 1.0 micron (µm)

Maximum differential pressure:

3.40 bard (3.47 kg/cm²d, 49 psid) @25°C (77°F)

Maximum operating temperature:

60°C (140°F)

Membrane Area:

16:1500 cm²

40:3500 cm²



Available in 16- and 40-

Available in sizes to fit most systems and production equipment configurations.

Applications:

- ☑ Ideal for 193nm and 248nm photoresist system filtration.
- ☑ Legacy photochemical filtration
- ☑ Point-of-use Developer and DI water

External Certification:



Table 1 shows the detailed ordering information.

Product Name	Pore Ratings	Sizes	O-ring Material	Size Code	Quantity
Example: Microchem™ F-16 PTFE 0.2um, Viton O-ring 2-015, 1/PK					
MCEF	G	16	E	L	1
MCEF = PTFE filter with HDPE Support	Y = 0.03um Z = 0.05um	16 = Fits wafergard ¹ F16 System 40 = Fits wafergard ¹ F40 System	E = EPDM V = Viton/FKM K = Kalrez	M = 2-015 L = 2-118	1 = 1/Pack
MCEN = Nylon filter with HDPE Support	V = 0.1um G = 0.2um A = 1um				

¹ Wafergard is a registered trademark of Entegris Inc.

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