

Mega-Etch Filter



Description

The Mega-Etch filter is targeted for use in recirculating etch baths. Utilizing our patented asymmetric polysulfone membrane enables the Mega-Etch filter to provide the following benefits:

- Available in retention ratings of 0.05, 0.1, 0.2, 0.45 μm
- High flow vs. low-pressure drop
- No pre-wetting with IPA required
- Fast bath clean-up
- Patented highly asymmetric polysulfone membrane assures long life

Specifications

Materials

- Medium: Highly asymmetric hydrophilic polysulfone
- Hardware: Polypropylene
- Support: Polypropylene
- O-ring: Viton¹ A (standard)

Removal Ratings

- 0.45 μm (0.1 μm RP²), 0.2 μm , 0.1 μm , 0.05 μm

Filter Areas

- 10" / 254 mm - 7.0 ft.² / 0.65 m²
- 20" / 508 mm - 14.0 ft.² / 1.30 m²

Configurations

- Nominal Length:
10" / 25.4 cm, 20" / 50.8 cm
- Diameter 2.6" / 6.6 cm

Operating Conditions

Maximum Operating Temperature:

- 203°F / 95°C

Maximum Forward Differential Pressure:

- 50 psid @ 60°F / 3.45 bar @ 20°C

Performance Parameters

Mega-Etch cartridges are available in single pass ratings of 0.05, 0.1, 0.2, or 0.45 μm . In addition, the Mega-Etch 0.45 (EBC450) cartridge has a Recirculating Performance of 0.1 μm^2 .

Target Applications

The Mega-Etch cartridge is used as the primary filter in recirculating etch baths. When operated at ambient temperature, it is compatible with a wide variety of etch solutions.²

The Mega-Etch cartridge is highly recommended for use in SiO₂ Etch with surfactant and low horsepower internal pumps.

The Mega-Etch cartridge will pressure wet when used in SiO₂ Etch without surfactant and with higher horsepower pumps, or use the Pall Ulti-Etch™ Filter for spontaneous wetting in high surface tension fluids.

The Mega-Etch cartridge is recommended for use in semi-aqueous strippers that are primarily HF based.²

¹ Viton is a trademark of DuPont Dow Elastomers

² Recirculating Performance. See Technical Bulletin 1038-T for more information.

³ Before installation, the Mega-Etch cartridge should be tested to determine compatibility

Part Numbers / Ordering Information

EBC ■ ● ◆ ▲

EBC Etch Bath Cartridge

Code	Removal Ratings in Microns (μm)	Code	Cartridge Lengths
050	0.05	10	10" / 254 mm
100	0.1	20	20" / 508 mm
200	0.2		
450	0.45 (0.1 RP ²)		

Code End Configurations

M3	SOE flat closed end, external 222 O-rings
M7	SOE fin end, external 226 O-rings
M8	SOE fin end, external 222 O-rings

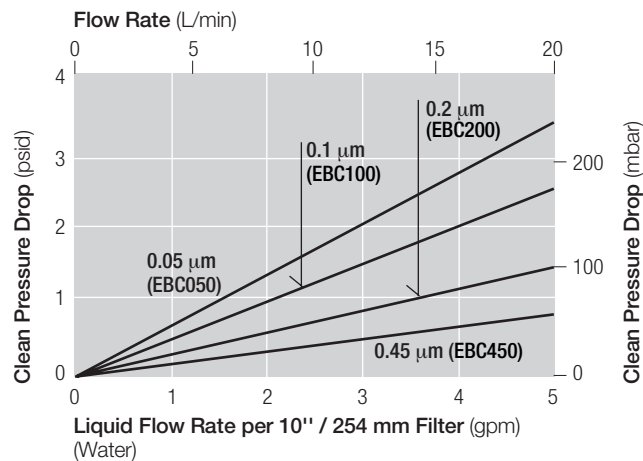
Code O-Ring Materials

V	Viton A (standard)
T	FEP Encapsulated Silicone
F	FEP Encapsulated Viton A
C	Chemraz ⁴

⁴ Chemraz is a trademark of Greene, Tweed & Co.

Unit conversion: 1 bar = 100 kilopascals

Pressure Drop vs. Liquid Flow Rate⁵



⁵ For liquids with viscosity differing from water, multiply the pressure drop by the viscosity in centipoise.



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