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 RP³), 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 µm².

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.
² Before installation, the Mega-Etch cartridge should be tested to determine compatibility.
### Part Numbers / Ordering Information

<table>
<thead>
<tr>
<th>EBC</th>
<th>Etch BathCartridge</th>
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<tbody>
<tr>
<td><strong>Code</strong></td>
<td><strong>Removal Ratings in Microns (µm)</strong></td>
</tr>
<tr>
<td>050</td>
<td>0.05</td>
</tr>
<tr>
<td>100</td>
<td>0.1</td>
</tr>
<tr>
<td>200</td>
<td>0.2</td>
</tr>
<tr>
<td>450</td>
<td>0.45 (0.1 RP²)</td>
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<table>
<thead>
<tr>
<th><strong>Code</strong></th>
<th><strong>End Configurations</strong></th>
</tr>
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<tbody>
<tr>
<td>M3</td>
<td>SOE flat closed end, external 222 O-rings</td>
</tr>
<tr>
<td>M7</td>
<td>SOE fin end, external 226 O-rings</td>
</tr>
<tr>
<td>M8</td>
<td>SOE fin end, external 222 O-rings</td>
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<table>
<thead>
<tr>
<th><strong>Code</strong></th>
<th><strong>O-Ring Materials</strong></th>
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<tbody>
<tr>
<td>V</td>
<td>Viton A (standard)</td>
</tr>
<tr>
<td>T</td>
<td>FEP Encapsulated Silicone</td>
</tr>
<tr>
<td>F</td>
<td>FEP Encapsulated Viton A</td>
</tr>
<tr>
<td>C</td>
<td>Chemraz⁴</td>
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</table>

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

Unit conversion: 1 bar = 100 kilopascals

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### Pressure Drop vs. Liquid Flow Rate

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

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