SPS

[Hydrophilic Polyethersulphone Membrane]

- DI and High Purity Water Filter
- Proprietary Highly Hydrophilic Polyethersulphone Membrane Media and Rapid Rinse Up
- Available in Retention Rating of 0.05, 0.1, 0.2, 0.45 Absolute (Beta Ratio of 10,000, >99.9% retention rating by standard latex bead challenge.)
- Superior Flow Rates and Long Service Life
- High Purity Polypropylene Hardware
- End Configurations to Fit Most Housings
- 100% Integrity testable
- Low extractable levels, no surfactants or adhesives used in manufacturing, fully thermal welded construction.
- Manufactured in a cleanroom environment, cartridge pre-flushed with 18 megaohm UPW water.

Applications
UHP Water
- Central PAD
- UPW Final Filter
- Hot D.I (T-option)
- Point-of-Use

UHP Chemical
- Specialty Chemicals
- Point-of-Use
- Bulk Photoresists and Solvents

Microelectronics
- Semiconductor
- Optical Disks
- Printed Circuits
- Hard Disks
### Ordering Information

<table>
<thead>
<tr>
<th>Micron rating selections</th>
<th>Endcaps</th>
<th>Nominal Length</th>
<th>Seal Material</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SPS (Hydrophilic PES)</strong></td>
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<tr>
<td>0004</td>
<td>0.04µm</td>
<td>DO – D.O.E</td>
<td>05 – 5”</td>
</tr>
<tr>
<td>0010</td>
<td>0.10µm</td>
<td>TC – 222 o’ring/Flat</td>
<td>10 – 10”</td>
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<tr>
<td>0020</td>
<td>0.20µm</td>
<td>TF – 222 o’ring/Fin</td>
<td>20 – 20”</td>
</tr>
<tr>
<td>0045</td>
<td>0.45µm</td>
<td>SF – 226 o’ring/Fin</td>
<td>30 – 30”</td>
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<tr>
<td>0100</td>
<td>1.0µm</td>
<td></td>
<td>40 – 40”</td>
</tr>
</tbody>
</table>

### Performance Specifications

- Resistivity rinse-up to 18 megohm-cm:
  - < 35 minutes
- Single digit ppb TOC rinse-up:
  - < 35 minutes

### Materials of Constructions:
- Membrane: Hydrophilic Polyethersulphone
- Membrane Support/Drainage:
  - Polypropylene (standard)
  - Polysulfone (T-option)
- Structural Components:
  - Polypropylene (Standard)
  - ECTFE (T-option)
- Seal Material: various
- Sealing Method: thermal welding

### Surface Area (10” cartridge):
- Minimum ≥0.7 m²

### Integrity Test:
- Bubble Point (As specified in National GMP, 25°C, Pure water):
  - <30 cm³/min @ 50 psig / 0.34 MPa
  - <24 cm³/min @ 25 psig / 0.17 MPa
  - <20 cm³/min @ 20 psig / 0.14 MPa
  - <15 cm³/min @ 15 psig / 0.1 MPa

### Dimension:
- Outside Diameter: 2.5” (70 mm) [nominal]
- Lengths: 2-30 in (10-76 cm)

### Recommended Operating Conditions:
- Maximum operating temperature:
  - 30°C / 86°F (70°C / 158°F)
- Maximum forward differential pressure:
  - 0.5 MPa @ 20°C / 80 psid @ 68°F
  - 0.14 MPa @ 70°C / 20 psig @ 158°F

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