GEPES-Series Electronics Grade Polyethersulfone

GEPES-Series High Purity Electronics Grade Polyethersulfone Filter Cartridges meet the stringent requirements of cleanliness of the micro-electronics industry. The polyethersulfone membrane offers high flux density and provides superior throughput for an extended operating life. Cartridges undergo extended flushing with 18 megaohm ultra-high purity water to achieve extraordinarily low levels of extractable substances. Each element is integrity tested for optimized, highly consistent performance. Manufactured in a clean-room environment to maintain high standards of purity and cleanliness.

Flow Rate vs Pressure Drop

 Typical Applications
• Ultra-Pure Water Systems
• Fine Chemical Filtration
• Photoresist Chemicals

Construction Materials

Membrane ......................... Polyethersulfone
Support Media ...................... Polypropylene
End Caps ......................... Polypropylene
Center Core ...................... Polypropylene
Outer Support Cage .............. Polypropylene
O-Rings/Gaskets ................. Buna, EPDM, Silicone, Teflon® Encapsulated Viton®, Viton®, Teflon® Encapsulated Silicone

Sanitization/Sterilization

Filtered Hot Water, .............. 80°C for 30 min.
Steam Sterilization, ......... 121°C for 30 min., multiple cycles

Chemicals: Cartridges are compatible with most chemical sanitizing agents.
Note: Stainless steel insert option required for all cartridges being hot water sanitized or steam sterilized.

Dimensions

Length: 10 to 40 inches (25.4 to 101.6 cm) nominal
Outside Diameter: 2.70 inches (7.0 cm) nominal

Ordering Information

<table>
<thead>
<tr>
<th>GEPES</th>
<th>Rating (µ)</th>
<th>A</th>
<th>Length</th>
<th>C</th>
<th>End Cap Style</th>
<th>O-Rings/Gaskets</th>
<th>Adders</th>
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<tbody>
<tr>
<td>0.04</td>
<td>10&quot; (25.4 cm)</td>
<td>2</td>
<td>DOE Flat Gasket</td>
<td>B</td>
<td>Buna</td>
<td>CS = 316SS Compression Spring</td>
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<tr>
<td>0.1</td>
<td>20&quot; (50.8 cm)</td>
<td>3</td>
<td>222 w/ Fin</td>
<td>E</td>
<td>EPDM</td>
<td>I = Stainless Steel Insert</td>
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<tr>
<td>0.2</td>
<td>30&quot; (76.2 cm)</td>
<td>4</td>
<td>222 w/ Flat Cap</td>
<td>S</td>
<td>Silicone</td>
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<tr>
<td>0.45</td>
<td>40&quot; (101.6 cm)</td>
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<td>226 w/ Flat Cap</td>
<td>T</td>
<td>Teflon® Encapsulated Viton®</td>
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<tr>
<td>0.65</td>
<td>7 = 226 w/ Fin</td>
<td>V</td>
<td>Viton®</td>
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<tr>
<td>0.8</td>
<td>16 = 213 Internal O-Ring</td>
<td>Z</td>
<td>Teflon® Encapsulated Silicone</td>
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<td>28 = 222 3-tabs w/ Fin</td>
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Disclaimers: Filtration data presented is representative of performance observed in controlled laboratory testing. It is not given as a warranty, specification or statement of fitness for use. Specific performance can vary widely depending on contaminant type, fluid properties, flow rates and environmental conditions. It is recommended that users conduct thorough qualification testing to assure the product functions as required. For additional technical support, a product Performance Guide is available upon request.

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