PureClear Series filter cartridges deliver reliable and consistent filtration of fluids in a wide range of applications. The continuously graded pore structure of the filter creates a network of tapered passages that capture contaminants throughout the media. The true depth filtration provided by the filter prevents the cartridge from blinding off when filtering fluids containing deformable particles or gels.

PureClear Series filter cartridges are an excellent choice as a pre-filter to protect more expensive final filters. The cartridge’s mechanical strength enables it to be used in demanding applications such as the filtration of well completion fluids or lubricating oils.

PureClear Series cartridges are available in various materials of construction offering excellent chemical compatibility with a variety of fluids and temperature ranges. The extended core option eliminates the need for expensive housing hardware and allows for quick and easy cartridge change-out. PureClear Series cartridges are available in a range of configurations to fit most commercially available filter housings.

**Benefits**

- A broad range of media and center core options provide excellent compatibility with a variety of fluids.
- True depth filtration provides high dirt holding capacity and is ideal for removing deformable particles or gels from process fluids.
- Polypropylene, Cotton, and other media available with FDA CFR Title 21 listed components suitable for food and beverage applications.
- Available in removal ratings from 0.5 to 200 μm.
- Continuous length cartridges up to 40” minimize change-out times and eliminate the need for additional housing hardware.
- Large (4.5”) diameter 10” and 20” length cartridges available for use in Plymouth Big Blue® Series filter housings.
- Extended core option eliminates the need for expensive housing center posts.

**Applications**

- Animal & Vegetable Oils
- Petroleum Oil and Lubes
- Dilute Acids and Alkalis
- Municipal & Potable Water Systems
- Pre-Polymer Filtration
- Metal Finish / Plating Solutions
- Pulp and Paper
- Aqueous Solutions
- Paints and Coatings
### Materials of Construction

<table>
<thead>
<tr>
<th>Filter Media</th>
<th>FDA Polypropylene, Polypropylene fibrillated, Industrial Polypropylene, Bleached Cotton, Natural Cotton, FDA Cotton, Rayon, Nylon, Polyester, Acrylic, Fiberglass</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center Cores</td>
<td>Polypropylene, Tinned Steel, 304 Stainless Steel, 316 Stainless Steel</td>
</tr>
<tr>
<td>Extended Core Option</td>
<td>Polypropylene extended cores available for quick and easy cartridge change-out</td>
</tr>
<tr>
<td>Core Cover Options</td>
<td>Core covers available to control fiber migration</td>
</tr>
<tr>
<td>End Treatment Option</td>
<td>Various end treatments and 0-ring sealing options are available to fit standard commercial filter housings</td>
</tr>
</tbody>
</table>

PureClear™ and The Clear Advantage™ are trademarks of Clarcor, Inc.

### Performance Specifications

- **Retention Rating**: 0.5, 1, 3, 5, 10, 15, 20, 25, 30, 50, 75, 100, 150, 200μm
- **Maximum Pressure**: 60 psid (4 bar) @ 70°F (21°C)
- **Maximum Operating Temperature**: See Maximum Temperature Rating Chart
- **Recommended Change-out Differential Pressure**: 30 psid (2 bar) @ 70°F (21°C)

### Maximum Temperature Rating

<table>
<thead>
<tr>
<th>Center Core</th>
<th>FDA Polypropylene</th>
<th>Polypropylene</th>
<th>Fibrillated Polypropylene</th>
<th>Bleached Cotton</th>
<th>Natural Cotton</th>
<th>Rayon</th>
<th>Nylon</th>
<th>Acrylic</th>
<th>Polyester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metal F (˚C)</td>
<td>180 (82.2)</td>
<td>180 (82.2)</td>
<td>180 (82.2)</td>
<td>250 (121.1)</td>
<td>250 (121.1)</td>
<td>275 (135)</td>
<td>275 (135)</td>
<td>250 (121.1)</td>
<td>300 (148.9)</td>
</tr>
<tr>
<td>Polypropylene F (˚C)</td>
<td>180 (82.2)</td>
<td>180 (82.2)</td>
<td>180 (82.2)</td>
<td>180 (82.2)</td>
<td>180 (82.2)</td>
<td>180 (82.2)</td>
<td>180 (82.2)</td>
<td>180 (82.2)</td>
<td>180 (82.2)</td>
</tr>
</tbody>
</table>

### Cartridge Ordering Information

<table>
<thead>
<tr>
<th>Micro Ratings</th>
<th>Media</th>
<th>Nominal Length</th>
<th>Core</th>
<th>Cartridge Style</th>
<th>Gasket or O-Ring Material</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.5, 1, 3, 5, 10, 15, 20, 25, 30, 50</td>
<td>P = Polypropylene*</td>
<td>912 = 9.75&quot;</td>
<td>P = Polypropylene</td>
<td>Blank = no end treatment</td>
<td>S = Silicone</td>
<td>F = FDA Approved Fiber</td>
</tr>
<tr>
<td>75, 100, 150, 200</td>
<td>R = Rayon**</td>
<td>198 = 19.5&quot;</td>
<td>S = 316 Stainless Steel</td>
<td>X = Extended Polypropylene Core</td>
<td>E = EPDM</td>
<td></td>
</tr>
</tbody>
</table>

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