Teflo-Clear Microbial hydrophobic filters are sterilizing PTFE membrane filters. Teflo-Clear Microbial PTFE membrane provides the highest levels of security in demanding air and gas applications. Teflo-Clear Microbial PTFE membrane filters are designed to remove microorganisms, particulate and moisture. The optimized design ensures exceptional gas flow rate and throughput for the Biopharmaceutical, food and beverage markets. Teflo-Clear Microbial filters are designed for applications that require particulate security to 0.003μm in gas and air and 0.2μm in liquids.

Teflo-Clear Microbial delivers value and security with these aerosol validated cartridges. Teflo-Clear Microbial meets USP Biological Reactivity Test Criteria, is Non fiber releasing, and manufactured to withstand multiple sterilization cycles, when using industry recognized and accepted methods.

Benefits

- PTFE Membranes
- Inherently Hydrophobic Media
- 100% Integrity Tested
- High Surface Area
- Virus Retentive in Gasses
- Thermally Bonded Construction
- FDA Listed Materials per CFR 21
- Manufactured in a ISO 9001: 2008 Certified Facility
- Water Intrusion Testable
- Quality Control Certificate Packaged with Every Filter
- Can Be Steam Sterilized Multiple Times in situ for Longer Filter Life
- Manufactured in 3rd Party Certified Clean Rooms

Applications

- Fermenter Inlet Air and Exhaust Venting
- Sterile Process Air
- Sterile Venting Of Tanks
**aspire® Teflo-Clear Microbial with PTFE Membrane**

**Pleated PTFE Membrane Vent Filter**

### Materials of Construction
- **Filter Membrane**: Polytetrafluoroethylene (PTFE)
- **Support Material**: Polypropylene
- **End Caps**: Polypropylene
- **Cage Core**: Polypropylene
- **Internal Support Ring**: 316 Stainless Steel
- **Sealing**: Thermal Bond
- **Seals**: Fluorocarbon and Silicone

### Performance Specifications
- **Differential Pressure Forward**: 75 psid (5.5 bar) @ 75°F (24°C)
- **Reverse**: 50 psid (3.4 bar) @ 75°F (24°C)
- **Pressure Forward**: 40 psid (2.8 bar) @ 180°F (82°C)
- **Maximum Operating Temperature**: 203°F (95°C) Continuous Duty

### Integrity Test Data
All cartridges are integrity tested prior to shipment using pressure decay test method. Values below are for cartridges wetted with 50/50 IPA/Water.

<table>
<thead>
<tr>
<th>Length</th>
<th>Test Pressure</th>
<th>Diffusional Flow</th>
</tr>
</thead>
<tbody>
<tr>
<td>10&quot;</td>
<td>12 psi</td>
<td>13 mL/min</td>
</tr>
<tr>
<td>20&quot;</td>
<td>12 psi</td>
<td>26 mL/min</td>
</tr>
<tr>
<td>30&quot;</td>
<td>12 psi</td>
<td>39 mL/min</td>
</tr>
</tbody>
</table>

### Cartridge Ordering Information

<table>
<thead>
<tr>
<th>Media</th>
<th>Micron Rating</th>
<th>Series</th>
<th>Layers</th>
<th>Nominal Length</th>
<th>Cartridge Style</th>
<th>Gasket or O-Ring Material</th>
<th>Utilization</th>
</tr>
</thead>
<tbody>
<tr>
<td>T</td>
<td>002</td>
<td>AM</td>
<td>1</td>
<td>5&quot;</td>
<td>3 = 222 O-Ring/Flat</td>
<td>03 = Silicone</td>
<td>N = Non-Steam Sterilizable</td>
</tr>
<tr>
<td>T = PTFE</td>
<td>002 = 0.2µm</td>
<td>AM = Microbial</td>
<td>1 = Single</td>
<td>5 = 5&quot;</td>
<td>3 = 222 O-Ring/Flat</td>
<td>03 = Silicone</td>
<td>N = Non-Steam Sterilizable</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>A = 10&quot;</td>
<td>7 = 226 O-Ring/Fin</td>
<td>08 = Viton®*</td>
<td>S = Steam Sterilizable</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>B = 20&quot;</td>
<td>7A = 222 O-Ring/Fin</td>
<td>08 = Viton®*</td>
<td>S = Steam Sterilizable</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>C = 30&quot;</td>
<td>8 = 222 O-Ring/Fin</td>
<td>*Non FDA</td>
<td>S = Steam Sterilizable</td>
</tr>
</tbody>
</table>

*Viton® is a registered trademark of E.I. duPont de Nemours and Company.*

For more information, contact your aspire® representative at

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**ASPIRE091 (2/20/17)**