PureFlo® Nylon Filter Cartridges

PureFlo® nylon filter cartridges are highly-retentive, naturally hydrophilic nylon membrane filters that have been specially designed for critical applications. The nylon membrane in an all-polypropylene construction provides excellent chemical compatibility and superior flow per surface area as compared to other membrane cartridges. No adhesives, binders, or surfactants are used in the manufacturing process and all cartridges are rinsed with high-purity water to reduce extractables and downtime.

The naturally hydrophilic nylon membrane does not require pre-wetting with IPA and flushing with DI water, thereby eliminating a potential source of contamination and hazardous waste. In addition, unlike hydrophobic filters such as PTFE, the hydrophilic membrane of nylon reduces the potential for bubble formation by not de-wetting in out-gassing fluids. All filter cartridges are 100% integrity tested to ensure filter performance each and every time out of the package. PureFlo nylon filter cartridges are well-suited for critical applications where superior flow and particle removal efficiency at 0.1, 0.2, 0.45, 0.65, and 1.0 micron is required.

### Materials of Construction
- Membrane: Naturally Hydrophilic Nylon
- Membrane Supports: Polypropylene
- Cage, Core, End Caps: Polypropylene
- O-Rings: Silicone, EPDM, Viton, Buna N, TES, TEV

### Dimensions (nominal)
- Lengths: 5 in. (13 cm), 10 in. (25 cm), 20 in. (50 cm), 30 in. (76 cm), 40 in. (102 cm)
- Diameter: 2.75 in. (7 cm)

### Effective Filtration Area
- 0.65 m² (7.0 ft²) per 10" cartridge element

### Operating Conditions
- Maximum Forward Differential Pressure: 4.5 bar (65 psid) at 20 °C
- Maximum Reverse Differential Pressure: 3.0 bar (44 psid) at 20 °C
- Maximum Operating Temperature: 80 °C

### Regulatory Compliance
- Manufactured from materials that conform to the requirements of 21CFR Part 177 of the U.S. Code of Federal Regulations and USP Class VI Biological Test for Plastic

### Applications
<table>
<thead>
<tr>
<th>Solvents</th>
<th>Ink Jets</th>
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</thead>
<tbody>
<tr>
<td>Fine Chemicals</td>
<td>Parts Cleaning</td>
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<tr>
<td>Plating Solutions</td>
<td>Pharmaceuticals</td>
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<td>Process Water</td>
<td>Biologics</td>
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<tr>
<td>Beverages</td>
<td>Dyes</td>
</tr>
</tbody>
</table>

### Features
- Naturally Hydrophilic Nylon Membrane (Absolute Rated)
- Built To Exacting Specifications
- Low Filter Extractables

### Benefits
- IPA pre-wetting not required – thereby eliminating a potential source of contamination and disposal waste
- Reduces downtime and improves throughput
- Economic alternative to PTFE and PVDF filters
- No dewetting in outgassing fluids unlike hydrophobic filters such as polypropylene
- Provides a consistent level of filtration
- No adhesives, binders, or surfactants are used during manufacturing resulting in superior downstream cleanliness
- Cartridges are rinsed with high-purity water
PureFlo® Nylon Filter Cartridges

PureFlo Nylon Filter Cartridge Ordering Guide

<table>
<thead>
<tr>
<th>PureFlo Nylon Membrane</th>
<th>Pore Size (micron)</th>
<th>Connections</th>
<th>Length</th>
<th>Gasket / O-Ring Materials</th>
<th>Package Quantity</th>
<th>Inserts</th>
</tr>
</thead>
<tbody>
<tr>
<td>MCN</td>
<td></td>
<td>0 = 222 O-Ring Flat</td>
<td>1 = 10&quot;</td>
<td>E = EPDM</td>
<td>1 = 1 per pack</td>
<td>Blank = Stainless Steel Insert</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2 = 222 O-Ring Spear</td>
<td>2 = 20&quot;</td>
<td>N = Buna N</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>3 = 226 O-Ring Flat</td>
<td>3 = 30&quot;</td>
<td>S = Silicone</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>4 = 226 O-Ring Spear</td>
<td>4 = 40&quot;</td>
<td>V = Viton</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>5 = 5&quot;</td>
<td>5 = 5&quot;</td>
<td>T = TEV *</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>F = DOE Flat Gasket</td>
<td>6 = 10&quot;</td>
<td>U = TES *</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>S = SOE Flat Gasket</td>
<td>7 = 15&quot;</td>
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<td></td>
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</tr>
<tr>
<td></td>
<td></td>
<td>Z = SOE Internal 213</td>
<td>8 = 20&quot;</td>
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<tr>
<td></td>
<td></td>
<td>0-Ring Flat **</td>
<td>9 = 30&quot;</td>
<td>10 = 40&quot;</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>1 = 1 per pack</td>
<td>10 = 50</td>
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<td></td>
<td></td>
<td>Blank = Standard</td>
<td>11 = 60</td>
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<tr>
<td></td>
<td></td>
<td>-5 = Stainless Steel Insert</td>
<td>12 = 70</td>
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</tr>
</tbody>
</table>

Example – 10", 0.65 micron cartridge, with 2-222 EPDM O-Rings/Flat Cap and no insert would be **MCN6501E1**

* - not available in Code Z  **- only available in 5", 10", and 20"

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