DMB Series
Polypropylene Melt Blown Filter Cartridges

DMB series filter cartridges are polypropylene melt blown depth filters. Delta Pure Filtration employs 100% FDA approved polypropylene, and utilizes a multi-layered construction for progressive contaminant removal efficiency. Our innovative production process creates a depth filter with superior performance and consistency. Standard graded density cartridges are available along with custom-gradient configurations to meet specific application requirements. DMB Series filter cartridges are available in lengths to 50” (127 cm) and various diameters to 6” (15.2 cm).

DMB Series cartridges are ideal pre-filters and polishing filters where there is a fairly wide contaminant particle size distribution. The depth filtration mechanism also provides excellent control of gelatinous contaminants. A fixed pore structure formed by the non-shedding, bonded medium prevents release of trapped particles.

The self-supporting fiber matrix enables a coreless design that is both economical and strong. The polypropylene filter medium provides broad chemical compatibility.

Benefits
- High flow rates
- Low pressure drop
- High dirt-holding-capacity
- Fixed-pore-structure retains trapped debris
- FDA listed polypropylene – 21 CFR 177.1520
- Broad chemical compatibility
- Controlled process parameters – consistent product
- Made by Delta Pure Filtration in USA

Applications*
- RO pre-filtration, DI water, makeup water
- Bottled water, potable water, municipal water
- Juices, flavors, food and beverage, cosmetics
- Weak acids, plating chemicals
- Weak bases, caustics
- Amines, glycols, produced water, brine fluids
- Paints, inks, pigments, solvents (non-halogenated)

* Filter users should evaluate chemical compatibility on a case-by-case basis.
Specifications

Filter Medium
Polypropylene, per CFR 177.1520

Cartridge ID
1 1/16” (2.7 cm)

Cartridge OD
DMB-9 2.5” (6.4 cm)
DMB-X-J 4 ½” (11.4 cm)
Maximum for special cartridges: 6” (15.2 cm)

Length
Up to 50” (127 cm)

Efficiency
90% nominal

Recommended Max. Differential Pressure
35 PSID (2.4 bar)

Box Quantities
2 ½” OD
9.75”- 10” length – 40/box
20”, 30”, 40”, 50” length – 20/box

4 ½” OD
9.75”- 10” length – 10/box
20” length – 5/box

Model/Code Ordering Information

<table>
<thead>
<tr>
<th>Cartridge Type</th>
<th>Micron Rating</th>
<th>Length Inches</th>
<th>Diameter</th>
<th>Options</th>
<th>O-rings</th>
</tr>
</thead>
<tbody>
<tr>
<td>DMB</td>
<td>1</td>
<td>9.75</td>
<td>[blank] 2.5” OD</td>
<td>[none] - DOE for knife edge seal</td>
<td>[blank] – none</td>
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<tr>
<td>Melt blown filter</td>
<td>3</td>
<td>10</td>
<td>J – 4.5” OD</td>
<td>2SD - SOE, 222 O-ring seal, w/ flat top*</td>
<td>B – Buna N</td>
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<tr>
<td></td>
<td>5</td>
<td>20</td>
<td></td>
<td>2SF - SOE, 222 O-ring seal, w/ fin*</td>
<td>E – EPDM (EPR)</td>
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<tr>
<td></td>
<td>10</td>
<td>30</td>
<td></td>
<td>2SPR - SOE, 222 O-ring seal, w/ spring top*</td>
<td>S – Silicone</td>
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<td></td>
<td>15</td>
<td>40</td>
<td></td>
<td>6SD - SOE, 226 O-ring seal, w/ flat top*</td>
<td>V – FKM fluoroelastomer</td>
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<td></td>
<td>25</td>
<td>50</td>
<td></td>
<td>6SF - SOE, 226 O-ring seal, w/ fin*</td>
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<tr>
<td></td>
<td>50</td>
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<td></td>
<td>E - DOE for knife edge seal, extended core</td>
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<td></td>
<td>100</td>
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<td>EC - DOE, end caps with polypropylene PPR gaskets*</td>
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<td></td>
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<td>GP - polyethylene gaskets (heat sealed to filter)</td>
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<td>5/25</td>
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<td>SPR – SOE spring in top, knife edge seal</td>
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<td>25/50</td>
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Example: DMB-5-30-2SD-S polypropylene melt blown filter, 5 micron, 30 inches tall, 222 O-rings of silicone, flat top

For customized filters for challenging or specialized applications, please contact Delta Pure.

* Note: End fittings can be affixed using an adhesive per 21 CFR 175-105.