FILTER BAGS

Mesh Filter Bags

Innovative Solutions. Clear Results.
FILTER BAGS

MESH FILTER BAGS

All FSI mesh bags are constructed using a woven or knitted fabric. Whether your particular environment requires a single filament mesh that provides excellent strength with no fiber migration, or a woven multi-strand mesh designed for economical filtration bags, we have your needs covered. The yarn in all of our mesh filter bags is abrasion resistant, compatible with a broad range of chemicals, unaffected by metal fatigue or corrosion, and boasts high tensile strength.

Features

- Available in nylon monofilament, polyester multifilament and polypropylene monofilament offering broad range of chemical compatibility and price ranges
- Monofilament mesh bags provide extra strength and abrasion resistance
- Precision mesh materials produce predictable results for consistent performance
- Offered in standard and custom sizes to provide a perfect fit for standard and unique applications
- Offered in micron ratings 1-1500 with plastic and metal rings for versatility
- Silicone free to prevent cratering for a better surface finish

Monofilament Mesh is a woven fabric where each thread is a single filament, boasting excellent strength with no fiber migration.

Multifilament Mesh is a woven fabric where each strand consists of many smaller diameter threads.
FILTER BAGS

Specifications

- **Available Materials**
  - Nylon Monofilament
  - Polyester Multifilament
  - Polypropylene Monofilament

- **Micron Rating**
  - NMO = 1, 5, 10, 25, 35, 55, 65, 75, 100, 125, 150, 175, 200, 250, 400, 600, 800, 1200
  - PEM = 75, 100, 125, 150, 200, 250, 400, 800, 1500
  - PMO = 100, 150, 200, 250, 300, 600

- **Sizes**
  - #1: 7" x 16" (17.78 cm x 40.65 cm)
  - #2: 7" x 32" (17.78 cm x 80 cm)
  - #3: 4" x 8 1/4" (10.16 cm x 20.96 cm)
  - #4: 4" x 14" (10.16 cm x 35 cm)
  - #5: 6 7/8" x 34" (17.46 cm x 86.36 cm)
  - #6: 6 7/8" x 16 1/2" (17.46 cm x 41.91 cm)
  - #7: 5 1/2" x 16" (13.97 cm x 40.64 cm)
  - #8: 5 1/2" x 22" (13.97 cm x 55.88 cm)
  - #9: 5 1/2" x 33" (13.97 cm x 83.82 cm)
  - SGP: 5 Gallon Pail (19L)
  - 12X18D: 12" x 18" Drawstring (30.48 cm x 43.2 cm)
  - 18X24D: 18" x 24" Drawstring (45 cm x 60.96 cm)
  - 18X28D: 18" x 28" Drawstring (45 cm x 71.12 cm)

**MESH FILTER BAGS**

<table>
<thead>
<tr>
<th>Item # BPEM100P1PA</th>
</tr>
</thead>
</table>

**Type of Filter**
- B = Filter Bag

**Material**
- NMO = Mesh, Nylon monofilament
- PEM = Mesh, Polyester multifilament
- PMO = Mesh, Polypropylene monofilament

**Micron Rating**
- See specifications

**Cover**
- P = Plain (no cover)

**Size**
- 1, 2, 3, 4, 5, 6, 7, 8, 9
- SGP (5 Gallon Pail)
- 12x18D, 18x24D, 18x28D (D = Draw-string)

**Ring**
- P = Polypropylene PolyLoc®
- PE = Polyester PolyLoc®
- C = Cuno
- N = Nylon PolyLoc®
- S = Snap fit metal
- SSS = Stainless steel snap fit
- CO = Commercial steel ring
- COP = Commercial plastic ring

**Suffix**
- WE = Welded Seam Construction *(available on sizes 3 & 4 NMO only)*
- A = Auto Construction
- LOOPS = Loops
- C = Cotton Handle
- N = Nylon Handle

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FILTER BAGS

Felt Filter Bags
- Standard Felt Filter Bags
- Polyweld® Filter Bags
- Extended Life Filter Bags (POEX/PEEX)
- MAX PONG Filter Bags
- PolyFold™ Filter Bags

Polymicro Microfiber Filter Bags
- POMF Filter Bags

Seamless-Absolute Rated
- BOS Filter Bags
- BOS Gradient Filter Elements
- BOS MAX Filter Bags

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Mesh Filter Bags

Filter Fabric Qualities

<table>
<thead>
<tr>
<th>Fabric</th>
<th>Cotton</th>
<th>Polyester</th>
<th>Glass</th>
<th>Nylon</th>
<th>Nomex</th>
<th>Polypropylene</th>
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<tbody>
<tr>
<td>Specific Gravity</td>
<td>1.55</td>
<td>1.38</td>
<td>2.56</td>
<td>1.14</td>
<td>1.14</td>
<td>0.9</td>
</tr>
<tr>
<td>Abrasion &amp; Flex</td>
<td>Poor</td>
<td>Very Good</td>
<td>Poor</td>
<td>Excellent</td>
<td>Very Good</td>
<td>Very Good</td>
</tr>
<tr>
<td>Weak Acids</td>
<td>Poor</td>
<td>Very Good</td>
<td>Excellent</td>
<td>Fair</td>
<td>Excellent</td>
<td></td>
</tr>
<tr>
<td>Strong Acids</td>
<td>Poor</td>
<td>Good</td>
<td>Good</td>
<td>Poor</td>
<td>Poor</td>
<td>Excellent</td>
</tr>
<tr>
<td>Weak Alkali</td>
<td>Excellent</td>
<td>Good</td>
<td>Fair</td>
<td>Excellent</td>
<td>Excellent</td>
<td>Excellent</td>
</tr>
<tr>
<td>Strong Alkali</td>
<td>Excellent</td>
<td>Poor</td>
<td>Poor</td>
<td>Excellent</td>
<td>Excellent</td>
<td>Excellent</td>
</tr>
<tr>
<td>Solvents</td>
<td>Good</td>
<td>Good</td>
<td>Excellent</td>
<td>Good</td>
<td>Good</td>
<td>Fair</td>
</tr>
<tr>
<td>Temperature (°F)</td>
<td>200 - 240°</td>
<td>275 - 325°</td>
<td>500 - 600°</td>
<td>275 - 300°</td>
<td>400 - 450°</td>
<td>200 - 220°</td>
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</table>

Filter Bag Data

<table>
<thead>
<tr>
<th>Bag Size</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>X01</th>
<th>XL</th>
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</thead>
<tbody>
<tr>
<td>Surface Area Per Bag (ft2/m2)</td>
<td>2.0/0.19</td>
<td>4.4/0.41</td>
<td>0.5/0.05</td>
<td>1.0/0.9</td>
<td>2.0/0.19</td>
<td>5.3/0.49</td>
</tr>
<tr>
<td>Volume Per Bag (gal*/liter)</td>
<td>2.1/7.9</td>
<td>4.6/17.3</td>
<td>0.37/1.4</td>
<td>0.67/2.5</td>
<td>2.1/7.9</td>
<td>5.5/0.51</td>
</tr>
<tr>
<td>Bag Diameter (inch/cm)</td>
<td>7.0/17.8</td>
<td>7.0/17.8</td>
<td>4.0/10.2</td>
<td>4.0/10.2</td>
<td>6.0/15.2</td>
<td>9.25/23.5</td>
</tr>
<tr>
<td>Bag Length (inch/cm)</td>
<td>16/40.65</td>
<td>32.0/81.3</td>
<td>8.25/20.9</td>
<td>14.0/35.5</td>
<td>22/55.9</td>
<td>32/81.3</td>
</tr>
<tr>
<td>FSI Filter Vessel Model Number</td>
<td>FSPN-40</td>
<td>FSPN-85</td>
<td>FSPN-250</td>
<td>FSPN-20</td>
<td>FSPN-35</td>
<td>X100B XL234</td>
</tr>
</tbody>
</table>

| FSPN-40 | CBFP-11 |
| FSPN-85 | CBFP-12 |
| FSPN-250 | BFP-13 |
| FSPN-20 | BFN-14 |

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Flow Rates of Filter Bags

In most filtration applications, fluid viscosities do not exceed 50cps. Using the following Flow Rates Per #2 Size Bag as a guide, the suggested flow rates should result in a CLEAN Pressure Drop under 2 PSID.

<table>
<thead>
<tr>
<th>Material Used</th>
<th>Micron Rating</th>
<th>Flow Rate (GPM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Felt</td>
<td>1 &amp; 3</td>
<td>80 GPM/#2 BAG</td>
</tr>
<tr>
<td>Felt</td>
<td>5 THRU 200</td>
<td>120 GPM/#2 BAG</td>
</tr>
<tr>
<td>Mesh</td>
<td>1, 3, 5 &amp; 100</td>
<td>100 GPM/#2 BAG</td>
</tr>
<tr>
<td>Mesh</td>
<td>25 THRU 100</td>
<td>125 GPM/#2 BAG</td>
</tr>
<tr>
<td>Mesh</td>
<td>150 THRU 800</td>
<td>150 GPM/#2 BAG</td>
</tr>
<tr>
<td>Microfiber</td>
<td>1A and 2A</td>
<td>60 GPM/#2 BAG</td>
</tr>
<tr>
<td>Microfiber</td>
<td>10A, 25A, 90A &amp; 0A</td>
<td>80 GPM/#2 BAG</td>
</tr>
</tbody>
</table>

Micron Rating & Availability