SAND CONTROL SCREENS

FILTRATION SOLUTIONS FOR THE OIL AND GAS INDUSTRY
PROPER SAND MANAGEMENT BEGINS WITH PROPER SCREEN SELECTION.

PMF’S SINTERPORE® PREMIUM METAL MESH SAND CONTROL SCREENS HAVE BECOME A STANDARD STAPLE IN THE OIL FIELD.

PMF’s unique screen design incorporates multiple diffusion bonded layers of woven metal mesh, creating a single monolithic sand control screen that is robust and has enhanced filtration specific characteristics - the right solution to any sand control problem.

PMF’s SINTERPORE® sand control screens range from the single layer woven metal mesh to the multi-layer diffusion bonded Premium cartridges.

The SINTERPORE® cartridges are fit for purpose for standalone or gravel pack applications as well as for open-hole and cased-hole environments. PMF’s optimal screen designs are critical in meeting your specific application and well conditions.

FEATURES AND BENEFITS:
• Maximum permeability above other screen options.
• Precise woven metal mesh laminates achieve optimal filtration, uniform flow, and mechanical strength.
• Diffusion bonded (sintered) designs result in a robust monolithic structure that provides fixed pore geometry.
• Fully annealed alloy provides superior corrosion protection.
• Standard micron ratings from 60 μm to 400 μm (custom upon request).
• Standard alloys include 316Lss and Alloy 20.
• Available with or without shroud.
• When incorporated with your design criteria, the Premium Classic complies with all three levels of ISO 17824 and proposed API 19S.

### SINTERPORE® PREMIUM CLASSIC CARTRIDGES

<table>
<thead>
<tr>
<th>Laminate Part Number</th>
<th>Nominal Micron Rating</th>
<th>Number of Layers</th>
<th>Thickness (inches)</th>
<th>Max Pore Size</th>
<th>Permeability (Darcy)</th>
<th>Nominal Air Permeability (SCFM/SF @ 1” W.C.)</th>
<th>Porosity (%)</th>
<th>Tensile</th>
</tr>
</thead>
<tbody>
<tr>
<td>F-PMF-316L-60-DS3</td>
<td>60</td>
<td>3</td>
<td>0.072</td>
<td>82</td>
<td>286</td>
<td>410</td>
<td>58</td>
<td>550/650</td>
</tr>
<tr>
<td>F-PMF-316L-125-DS3</td>
<td>125</td>
<td>3</td>
<td>0.074</td>
<td>164</td>
<td>359</td>
<td>500</td>
<td>56</td>
<td>614/789</td>
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<tr>
<td>F-PMF-316L-175-SS4</td>
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<td>4</td>
<td>0.074</td>
<td>210</td>
<td>538</td>
<td>750</td>
<td>58</td>
<td>749/854</td>
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<tr>
<td>F-PMF-316L-175-DS2</td>
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<td>2</td>
<td>0.060</td>
<td>233</td>
<td>320</td>
<td>550</td>
<td>54</td>
<td>550/650</td>
</tr>
<tr>
<td>F-PMF-316L-250-SS4</td>
<td>250</td>
<td>4</td>
<td>0.074</td>
<td>286</td>
<td>610</td>
<td>850</td>
<td>58</td>
<td>681/764</td>
</tr>
<tr>
<td>F-PMF-316L-250-DS2</td>
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<td>2</td>
<td>0.075</td>
<td>300</td>
<td>382</td>
<td>525</td>
<td>52</td>
<td>681/764</td>
</tr>
<tr>
<td>F-PMF316L-400-SS4</td>
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<td>0.072</td>
<td>440</td>
<td>593</td>
<td>850</td>
<td>57</td>
<td>681/764</td>
</tr>
</tbody>
</table>

Technical information is subject to change
FEATURES AND BENEFITS - FORTE:
- Our unique design eliminates all welds within the filter media.
- Easy installation - the cartridge can be slid and welded on the base pipe.
- The diffusion bonded (sintered) design incorporates an integrated outer shroud, multiple mesh layers, and an optional inner shroud for maximum strength.
- High flow screen designs available that allow for superior uniform flow.
- Available in a wide range of micron ratings from 60 μm to 400 μm (custom upon request).
- Standard alloys for control filter layer include 316Lss and Alloy 20.
- Standard alloys for shroud material include 304ss, 316ss, 304Lss, and 316Lss.

FEATURES AND BENEFITS - HEAVY OIL (H-O):
- Cartridge includes a fully integrated shroud with high performance mesh designed for harsh environments.
- Fit for purpose for injector and/or producer.
- Most economical option.
- Available in a wide range of micron ratings from 100 μm to 800 μm (custom upon request).
- Superior filtration, uniform flow, and enhanced erosion properties.
- Standard alloys for control filter layer include 304Lss, 316Lss and Alloy 20.
- Standard alloys for shroud material include 304ss, 316ss, 304Lss, and 316Lss.

FEATURES AND BENEFITS:
- Premium Classic and Premium Pro designs are both great options for thru tubing.
- Standard and highly customizable designs.
- Economical designs to fit your work over budget.
- Premium Pro thru tubing offers the smallest OD package in the industry.
- Maximum flow rates for difficult sand conditions.

FEATURES AND BENEFITS:
- Our most economical metal mesh screen cartridge option.
- Non-sintered design provides filtration and flow advantages above other non-sintered screen options.
- The integrated shroud allows you to weld the cartridge directly to the pipe saving time and money.
- Multiple weave options for superior filtration performance with micron ratings from 60 μm to 800 μm.
- Optional flow and drainage layers.
- Filter media is available in 304Lss, 316Lss, Alloy 625, and Alloy 20.

Note: all units noted in inches
Porous Metal Filters, Inc (PMF) is part of the USA division of the Dorstener Group.

Dorstener Drahtwerke has been in business for 100 years and is an industry leader in wire and wire mesh products. The Dorstener Group has locations throughout Europe, North America, South America and Asia, specializing in high performance wire, wire cloth, welded mesh, and metallic filtration products.

The principal applications of PMF’s SinterPore® diffusion bonded (sintered) product line includes filtration, separation, flow control, noise abatement, bulk solid fluidization, flame arrest and many other uses.