## Mott Porous Metal Data Sheet

**Media Grade:** 1  
**Type:** Iso Pressed Tube  
**Alloy:** 316LSS  
**Inside Diameter:** 0.375 inches  
**Outside Diameter:** 0.500 inches  
**Issued:** 06/25/10

### Manufacturing Specifications

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bubble Point, inch of Hg</td>
<td>2.0 - 2.5</td>
</tr>
<tr>
<td>Minimum Tensile, kpsi</td>
<td>15.3</td>
</tr>
<tr>
<td>Yield Strength, kpsi</td>
<td>13.5</td>
</tr>
<tr>
<td>Young’s Modulus, x 10^6 psi</td>
<td>6.5</td>
</tr>
</tbody>
</table>

### Permeability Coefficient

<table>
<thead>
<tr>
<th>Phase</th>
<th>Coefficient</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid</td>
<td>$K_L$</td>
<td>9.2</td>
</tr>
<tr>
<td>Gas</td>
<td>$K_G$</td>
<td>60</td>
</tr>
</tbody>
</table>

### Particle Removal Efficiency

- **Liquid Efficiency**: Testing per ASTM F795  
  - 90% at 1.4 µm  
  - 99% at 2 µm  
  - 99.9% at 3 µm

- **Air Efficiency**: Tested at flux of 6 acfm/ft²  
  - >90% for all particle sizes  
  - 99% at 0.25 µm  
  - 99.9% at 0.4 µm

### Flow Characteristics

- **Liquid Pressure Drop, psid**
  \[ (K_L)(\text{Flux, gpm/ft}^2)(\text{Visc, cp})(\text{Thick, inch}) \]

- **Gas Pressure Drop, psid**
  \[ (K_G)(\text{Flux, acfm/ft}^2)(\text{Visc, cp})(\text{Thick, inch}) \]

### Notes:

1. Tests run at 70 °F  
2. Tests run with water, other curves generated using Liquid Formula

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**Flow Characteristics on these data sheets are typical and should be used for general reference only.**