### Mott Porous Metal Data Sheet

**Media Grade:** 40  
**Type:** Iso Pressed Tube  
**Alloy:** 316LSS  
**Inside Diameter:** 0.344 inches  
**Outside Diameter:** 0.500 inches  
**Issued:** 06/25/10

#### Manufacturing Specifications
- **Bubble Point, inch water:** 3.0 - 4.0
- **Minimum Tensile, kpsi:** 3.6
- **Yield Strength, kpsi:** 3.1
- **Young’s Modulus, x 10^6 psi:** 1.8

#### Permeability Coefficient
- **Liquid, \( K_L \):** 0.40
- **Gas, \( K_G \):** 2.6

#### Particle Removal Efficiency
- **Liquid Efficiency:**
  - 90% at 25 \( \mu \)m
  - 99% at 35 \( \mu \)m
  - 99.9% at 45 \( \mu \)m
- **Air Efficiency:**
  - 90% at 12 \( \mu \)m
  - 99% at 25 \( \mu \)m
  - 99.9% at 45 \( \mu \)m

#### Flow Characteristics

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

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

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

### Flow Characteristics
- **Pressure Drop vs. Liquid Flow:**
  - Pressure Drop, psid vs. Liquid Flow, gpm/ft^2
  - Lines for various Visc, cp values
  - 100 cp, 50 cp, 20 cp, 10 cp, 5 cp, 2 cp, 1 cp

- **Pressure Drop vs. Air Flow:**
  - Pressure Drop, psid vs. Air Flow, acfm/ft^2
  - Line for flux of 6 acfm/ft^2

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