Mott Porous Metal Data Sheet

Media Grade: 100  
Type: Pressed Disc  
Alloy: 316LSS  
Thickness: 0.093 inches  
Issued: 06/25/10

**Manufacturing Specifications**
- Bubble Point, inch water: 0.5 - 1.5
- Minimum Tensile, kpsi: 1.1
- Yield Strength, kpsi: 0.9
- Young’s Modulus, x 10^6 psi: 1.3

**Permeability Coefficient**
- **Liquid**: Liquid, \( K_L \) = 0.060
- **Gas**: Gas, \( K_G \) = 0.75

**Particle Removal Efficiency**
- **Liquid Efficiency**: Testing per ASTM F795
  - 90% at 50 \( \mu \)m
  - 99% at 100 \( \mu \)m
  - 99.9% at 150 \( \mu \)m

**Air Efficiency**: Tested at flux of 6 acfm/ft²
- 90% at 20 \( \mu \)m
- 99% at 40 \( \mu \)m
- 99.9% at 100 \( \mu \)m

**Flow Characteristics**

**Liquid Flow, gpm/ft²**

**Pressure Drop, psid**

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

**Air Flow, acfm/ft²**

**Pressure Drop, psid**

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

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

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