Mott Porous Metal Data Sheet

Media Grade: 1  
Type: Rolled Sheet  
Alloy: 316LSS  
Thickness: 0.047 inches  
Issued: 06/22/10

### Manufacturing Specifications
- **Bubble Point**, inch of Hg: 2.0 - 2.5
- **Minimum Tensile**, kpsi: 17.0
- **Yield Strength**, kpsi: 15.0
- **Young's Modulus**, $x 10^6$ psi: 7.4

### Permeability Coefficient
- **Liquid**, $K_L$: 9.2
- **Gas**, $K_G$: 75

### Particle Removal Efficiency
- **Liquid Efficiency**
  - 90% at 1.5 µm  
  - 99% at 2.2 µm  
  - 99.9% at 3.3 µm
- **Air Efficiency**
  - Tested at flux of 6 acfm/ft²
  - >90% for all particle sizes  
  - 99% at 0.35 µm  
  - 99.9% at 0.7 µm

### Flow Characteristics
- **Liquid Flow**, gpm/ft²
- **Pressure Drop**, psid

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

- **Gas Flow**, acfm/ft²
- **Pressure Drop**, psid

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

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

Notes:
1. Tests run with air at 70 °F  
2. Tests run with upstream pressure exhausting to atmosphere

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