Mott Porous Metal Data Sheet

Media Grade: 5  
Issued: 06/22/10
Type: Rolled Sheet
Alloy: 316LSS
Thickness: 0.062 inches

Manufacturing Specifications
- Bubble Point, inch water: 13.0 - 16.9
- Minimum Tensile, kpsi: 9.2
- Yield Strength, kpsi: 8.5
- Young’s Modulus, x 10^6 psi: 4.1

Permeability Coefficient
- Liquid, \( K_L \): 1.5
- Gas, \( K_G \): 15

Particle Removal Efficiency
- Liquid Efficiency: 90% at 5 µm, 99% at 8 µm, 99.9% at 13 µm
- Testing per ASTM F795

Testing per ASTM F795
- Liquid: Pressure Drop, psid = 
  \[ (K_L)(\text{Flux, gpm/ft}^2)(\text{Visc, cp})(\text{Thck, inch}) \]
- Gas: Pressure Drop, psid = 
  \[ (K_G)(\text{Flux, acfm/ft}^2)(\text{Visc, cp})(\text{Thck, inch}) \]

Air Efficiency
- 90% at 0.8 µm
- 99% at 2 µm
- 99.9% at 5 µm
- Tested at flux of 6 acfm/ft²

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.

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