

Mott Porous Metal Data Sheet

Media Grade: 0.5
Type: Rolled Sheet
Alloy: 316LSS
Thickness: 0.047 inches

Issued: 06/22/10

Manufacturing Specifications

Bubble Point, inch of Hg 3.0 - 3.9
 Minimum Tensile, kpsi 21.0
 Yield Strength, kpsi 19.0
 Young's Modulus, x 10⁶ psi 9.5

Permeability Coefficient

Liquid, K_L 20
 Gas, K_G 190

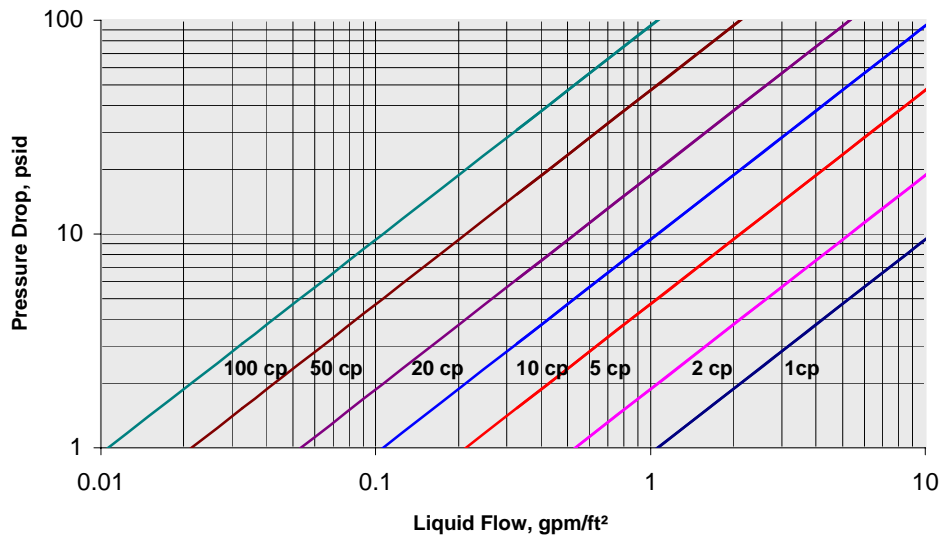
Liquid: Pressure Drop, psid =
 (K_L)(Flux, gpm/ft²)(Visc, cp)(Thck, inch)

Gas: Pressure Drop, psid =
 (K_G)(Flux, acfm/ft²)(Visc, cp)(Thck, inch)

Particle Removal Efficiency

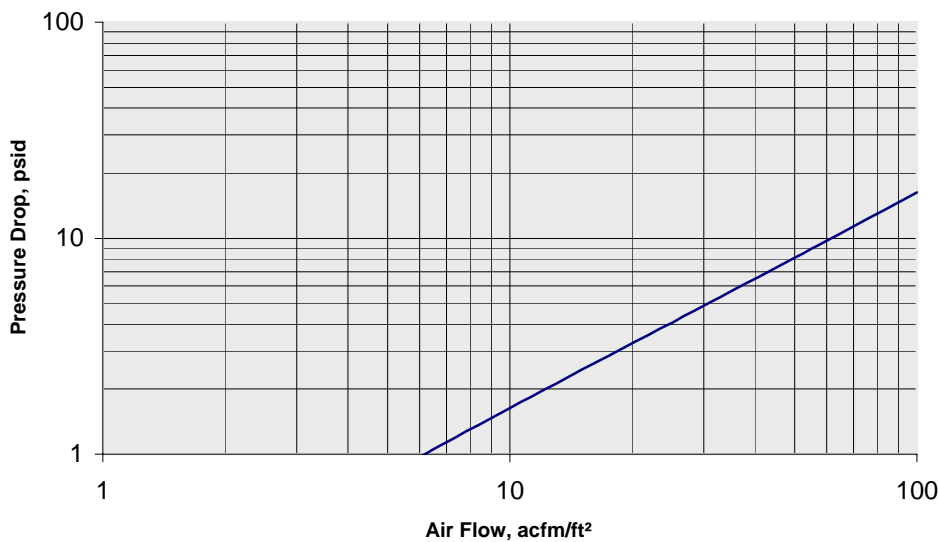
Liquid Efficiency Testing per ASTM F795
 Tested at 1 gpm/ft²
 90% at 1 μm
 99% at 1.7 μm
 99.9% at 2.2 μm

Air Efficiency Tested at flux of 6 acfm/ft²
 >90% for all particle sizes
 99% at 0.25 μm
 99.9% at 0.3 μm



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

mott corporation

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