

Mott Porous Metal Data Sheet

Media Grade: PDS - 1
Type: Rolled Sheet
Alloy: 316LSS
Thickness: 0.028 inches

Issued: 06/25/10

Manufacturing Specifications

Bubble Point, inch water 20.0 -27.0
 Minimum Tensile, kpsi 13.2
 Yield Strength, kpsi 10.8
 Young's Modulus, x 10⁶ psi 5.7

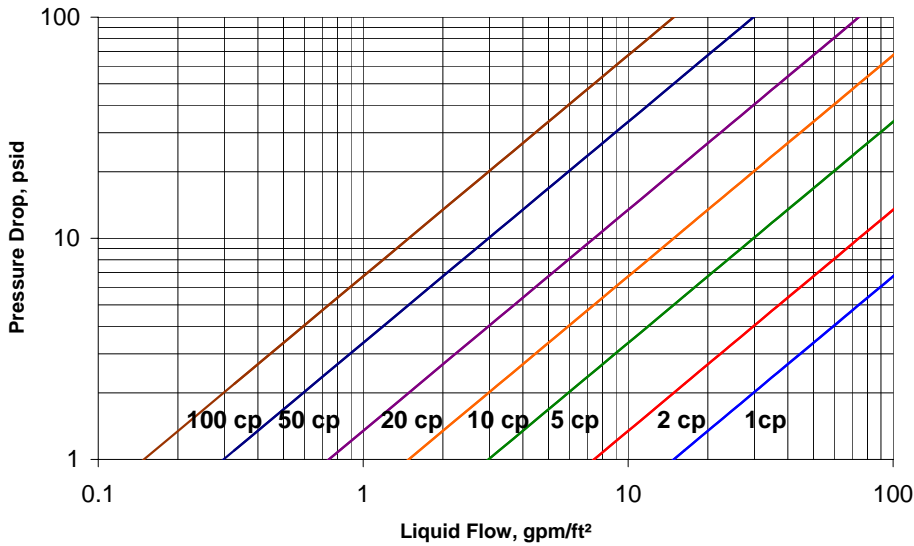
Permeability Coefficient

Liquid, K_L 2.4
 Gas, K_G 36

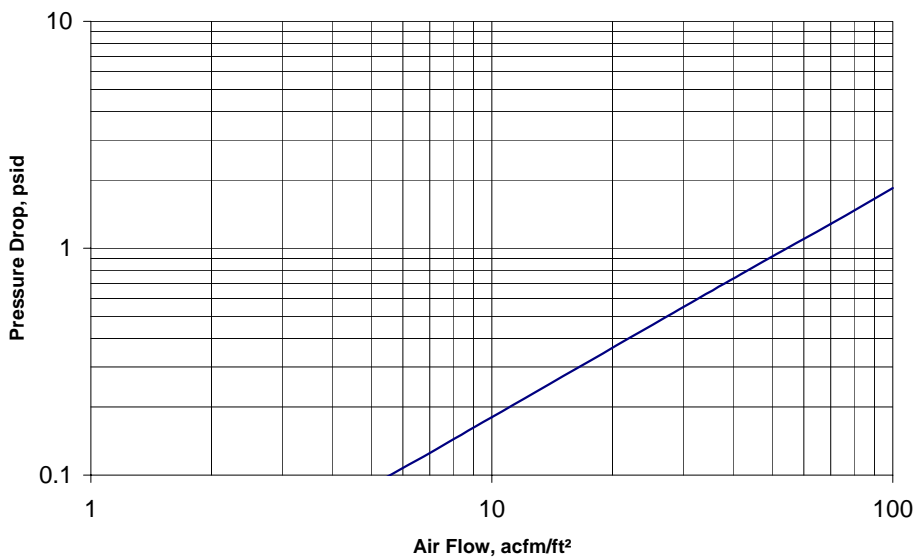
Liquid: Pressure Drop, psid =
 (K_L)(Flux, gpm/ft²)(Visc, cp)(Thck, inch)
Gas: Pressure Drop, psid=
 (K_G)(Flux, acfm/ft²)(Visc, cp)(Thck, inch)

Particle Removal Efficiency

Liquid Efficiency Tested per ASTM F795
 Tested at 1 gpm/ft²
 90% at 4.5 μm
 99% at 7 μm
 99.9% at 11 μm
Air Efficiency Tested at flux of 6 acfm/ft²
 90% at 0.5 μm
 99% at 1 μm
 99.9% at 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

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