

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

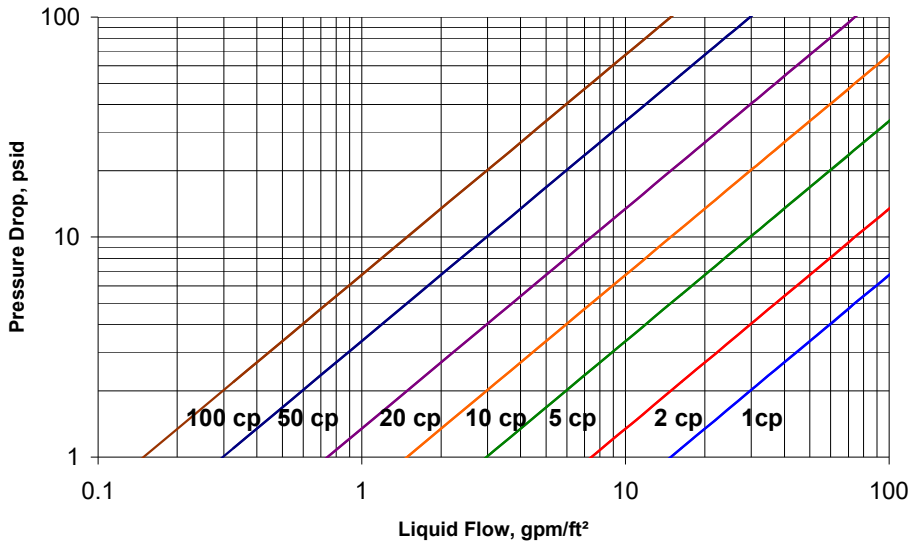
Permeability Coefficient

Liquid, K_L 2.4
 Gas, K_G 36

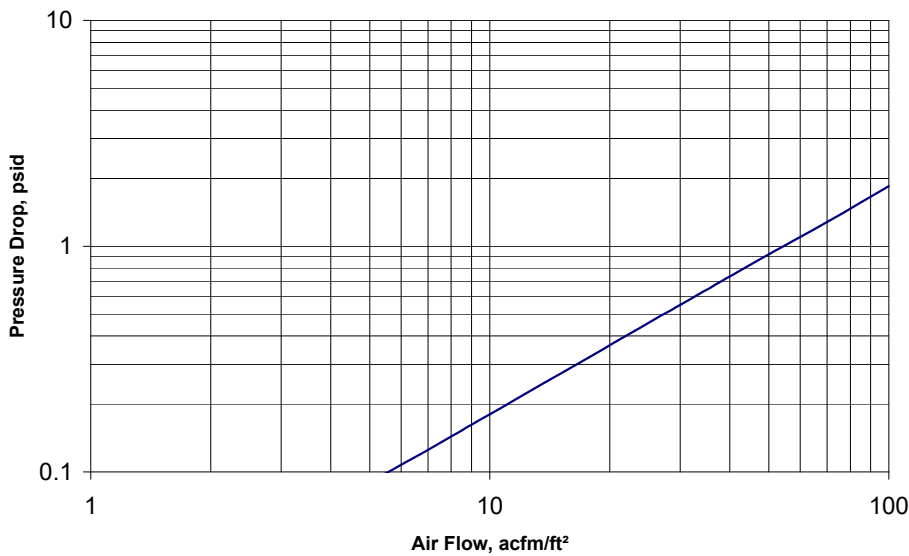
Liquid: Pressure Drop, psid =
 $(K_L)(Flux, \text{gpm/ft}^2)(Visc, \text{cp})(Thck, \text{inch})$
Gas: Pressure Drop, psid=
 $(K_G)(Flux, \text{acfm/ft}^2)(Visc, \text{cp})(Thck, \text{inch})$

Particle Removal Efficiency

Liquid Efficiency Testing 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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The characteristic values on this data sheet are nominal values that represent standard products and are intended for use as a design guide only. Critical To Quality (CTQ) characteristics must be specified on the drawings and verified.