Mott Porous Metal Data Sheet

Media Grade: 0.1
Type: Rolled Sheet
Alloy: 316LSS
Thickness: 0.039 inches
Issued: 06/22/10

Manufacturing Specifications
Bubble Point, inch of Hg 7.0 - 9.0
Minimum Tensile, kpsi 34.0
Yield Strength, kpsi 32.0
Young’s Modulus, x 10^6 psi 17.0

Permeability Coefficient
Liquid: K_L 270
Gas: K_G 1900

Particle Removal Efficiency
Liquid: Testing per ASTM F795
90% at 0.15 µm
99% at 0.4 µm
99.9% at 0.8 µm

Air: Tested at flux of 6 acfm/ft²
>90% for all particle sizes
>99% for all particle sizes
>99.9% for all particle sizes

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)

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

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

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