

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 10⁶ psi 17.0

Permeability Coefficient

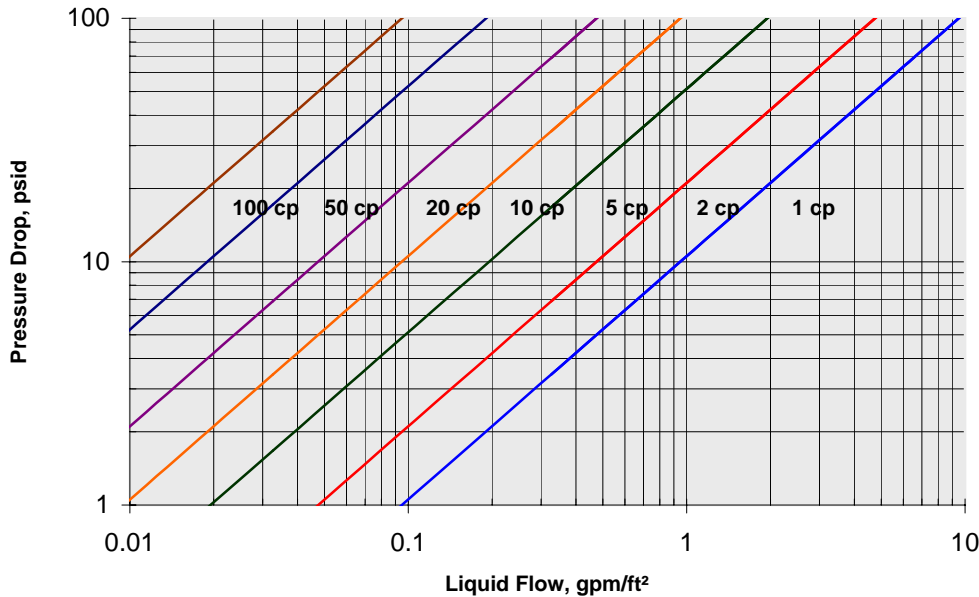
Liquid, K_L 270
 Gas, K_G 1900

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

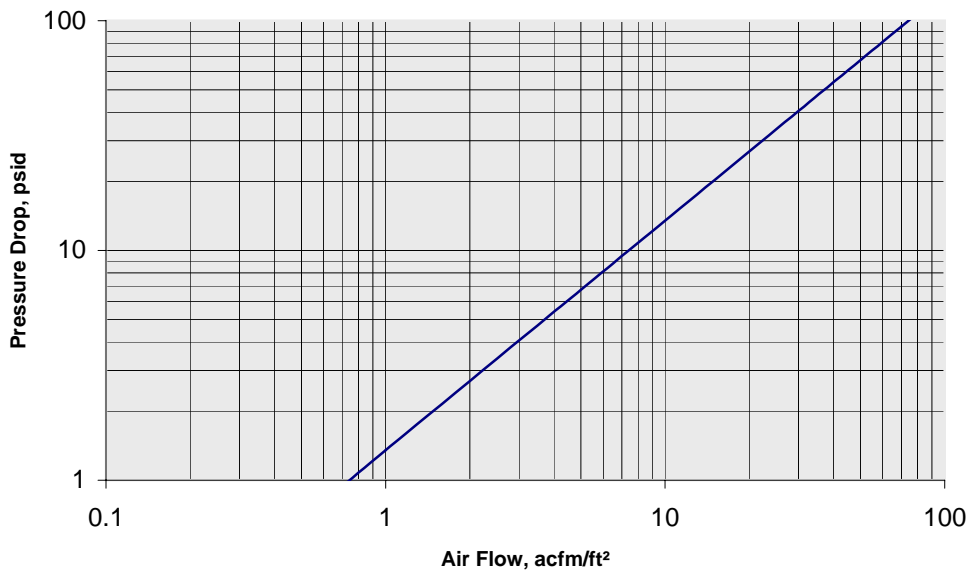
Liquid Efficiency Testing per ASTM F795
 90% at 0.15 μm Tested at 1 gpm/ft²
 99% at 0.4 μm
 99.9% at 0.8 μm

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



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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84 Spring Lane, Farmington, CT 06032-3159
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Flow Characteristics on these data sheets are typical and should be used for general reference only.

Mott Porous Metal Data Sheet

Media Grade: 0.2
Type: Rolled Sheet
Alloy: 316LSS
Thickness: 0.039 inches

Issued: 06/22/10

Manufacturing Specifications

Bubble Point, inch of Hg 5.0 - 6.9
 Minimum Tensile, kpsi 26.0
 Yield Strength, kpsi 24.0
 Young's Modulus, x 10⁶ psi 13.2

Permeability Coefficient

Liquid, K_L 90
 Gas, K_G 700

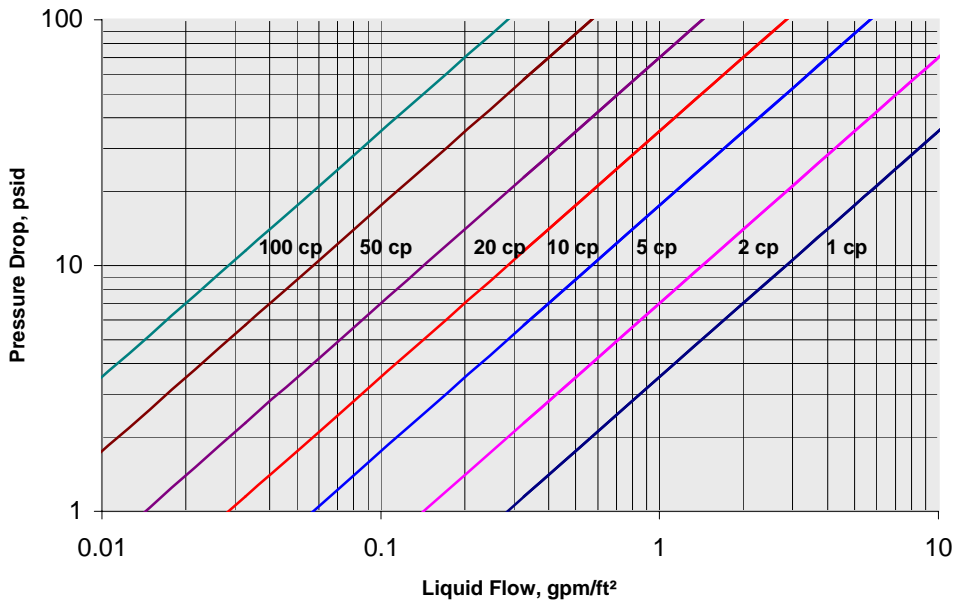
Liquid: Pressure Drop, psid =
 $(K_L)(\text{Flux, gpm/ft}^2)(\text{Visc, cp})(\text{Thck, inch})$

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

Particle Removal Efficiency

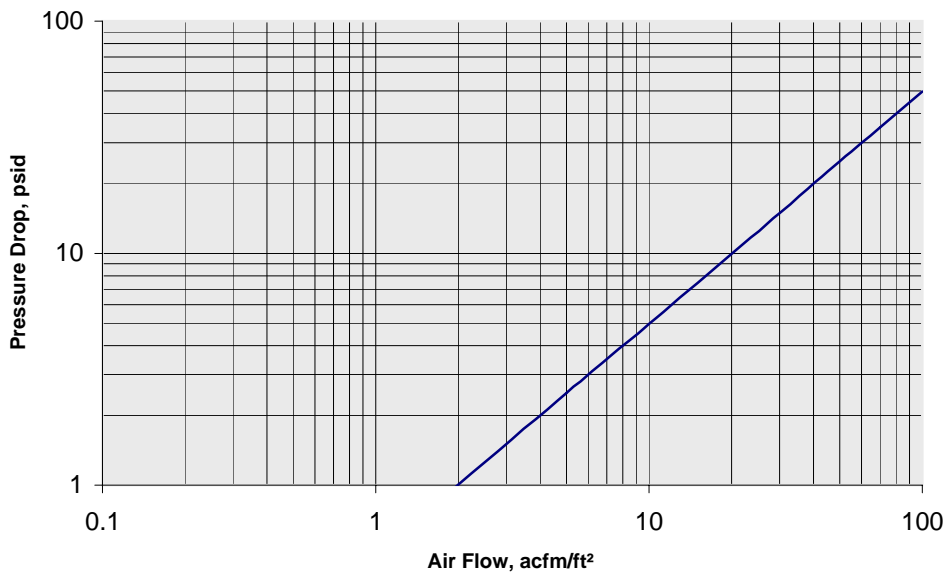
Liquid Efficiency Testing per ASTM F795
 Tested at 1 gpm/ft²
 90% at 0.5 μm
 99% at 0.9 μm
 99.9% at 1.4 μm

Air Efficiency Tested at flux of 6 acfm/ft²
 >90% for all particle sizes
 >99% for all particle sizes
 99.9% at 0.2 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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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

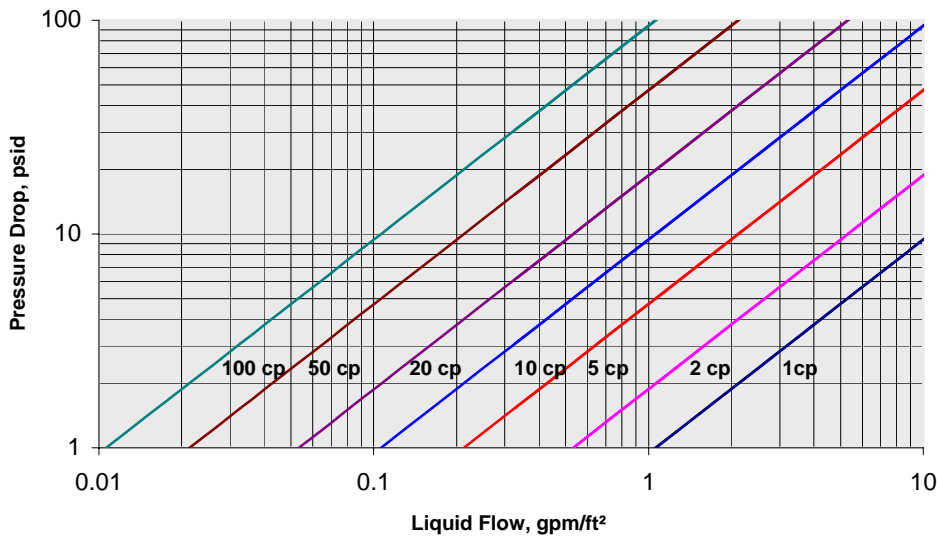
Liquid: Pressure Drop, psid =
 (K_L)(Flux, gpm/ft²)(Visc, cp)(Thck, inch)

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

Particle Removal Efficiency

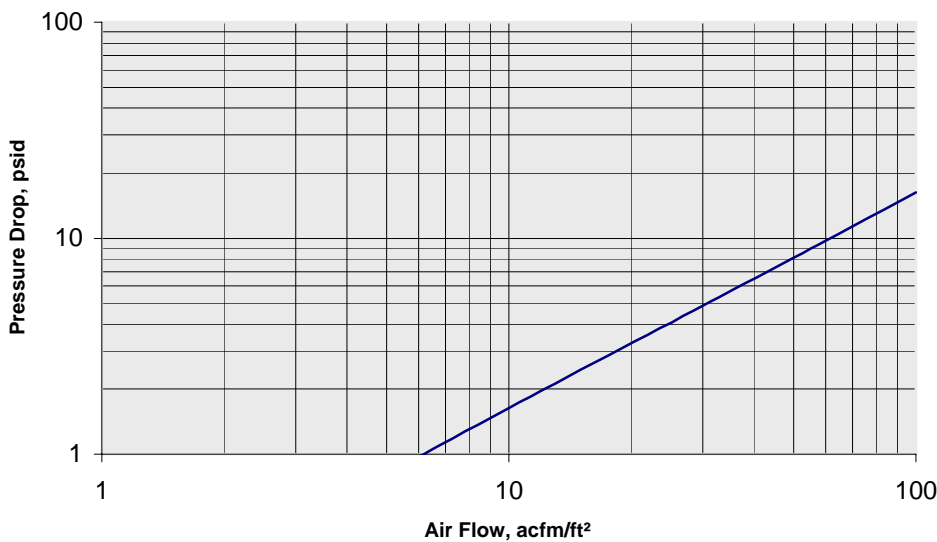
Liquid Efficiency Testing per ASTM F795
 Tested at 1 gpm/ft²
 90% at 1 μm
 99% at 1.7 μm
 99.9% at 2.2 μm

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

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Mott Porous Metal Data Sheet

Media Grade: 1
Type: Rolled Sheet
Alloy: 316LSS
Thickness: 0.047 inches

Issued: 06/22/10

Manufacturing Specifications

Bubble Point, inch of Hg 2.0 - 2.5
 Minimum Tensile, kpsi 17.0
 Yield Strength, kpsi 15.0
 Young's Modulus, x 10⁶ psi 7.4

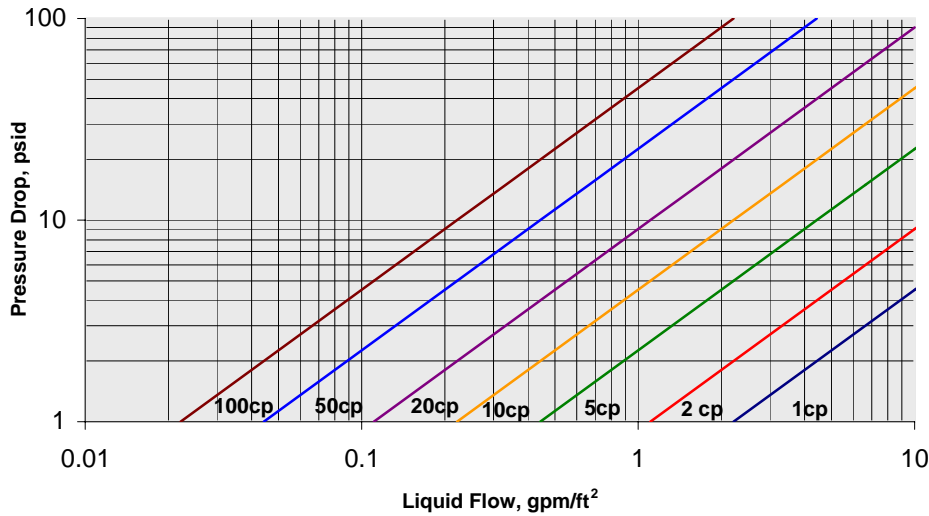
Permeability Coefficient

Liquid, K_L 9.2
 Gas, K_G 75
Liquid: Pressure Drop, psid =
 $(K_L)(\text{Flux, gpm/ft}^2)(\text{Visc, cp})(\text{Thck, inch})$
Gas: Pressure Drop, psid =
 $(K_G)(\text{Flux, acfm/ft}^2)(\text{Visc, cp})(\text{Thck, inch})$

Particle Removal Efficiency

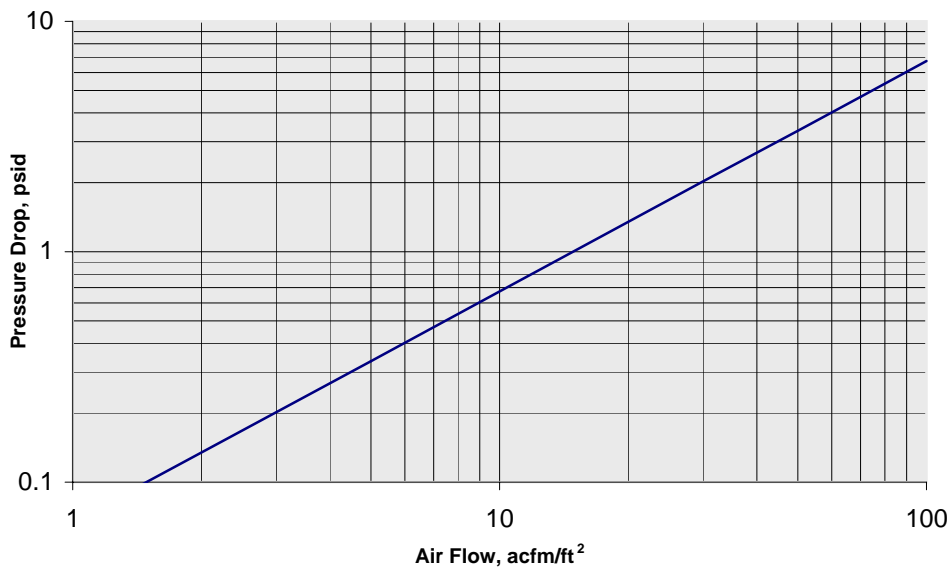
Liquid Efficiency Testing per ASTM F795
 Tested at 1 gpm/ft²
 90% at 1.5 μm
 99% at 2.2 μm
 99.9% at 3.3 μm

Air Efficiency Tested at flux of 6 acfm/ft²
 >90% for all particle sizes
 99% at 0.35 μm
 99.9% at 0.7 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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Mott Porous Metal Data Sheet

Media Grade: 2
Type: Rolled Sheet
Alloy: 316LSS
Thickness: 0.062 inches

Issued: 06/22/10

Manufacturing Specifications

Bubble Point, inch water 17.0 - 24.0
 Minimum Tensile, kpsi 13.2
 Yield Strength, kpsi 10.8
 Young's Modulus, x 10⁶ psi 5.7

Permeability Coefficient

Liquid, K_L 3.5
 Gas, K_G 30

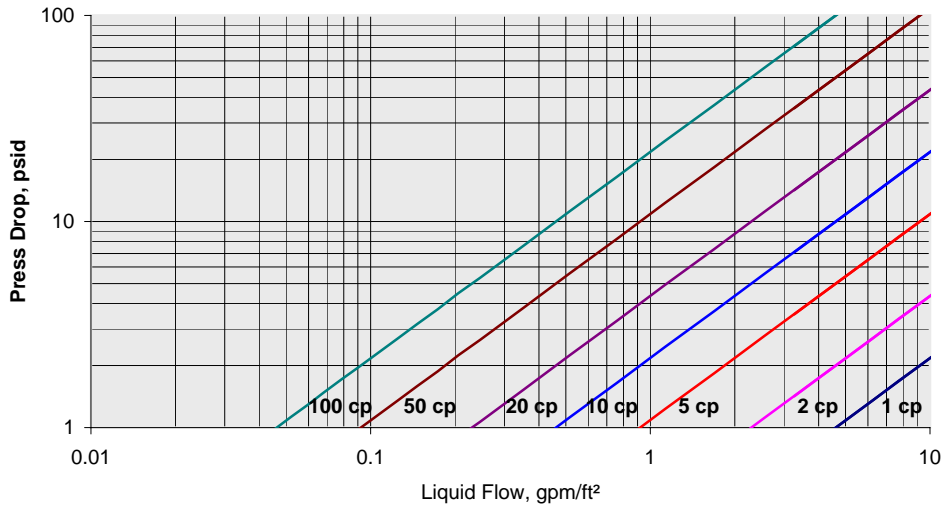
Liquid: Pressure Drop, psid =
 (K_L)(Flux, gpm/ft²)(Visc, cp)(Thck, inch)

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

Particle Removal Efficiency

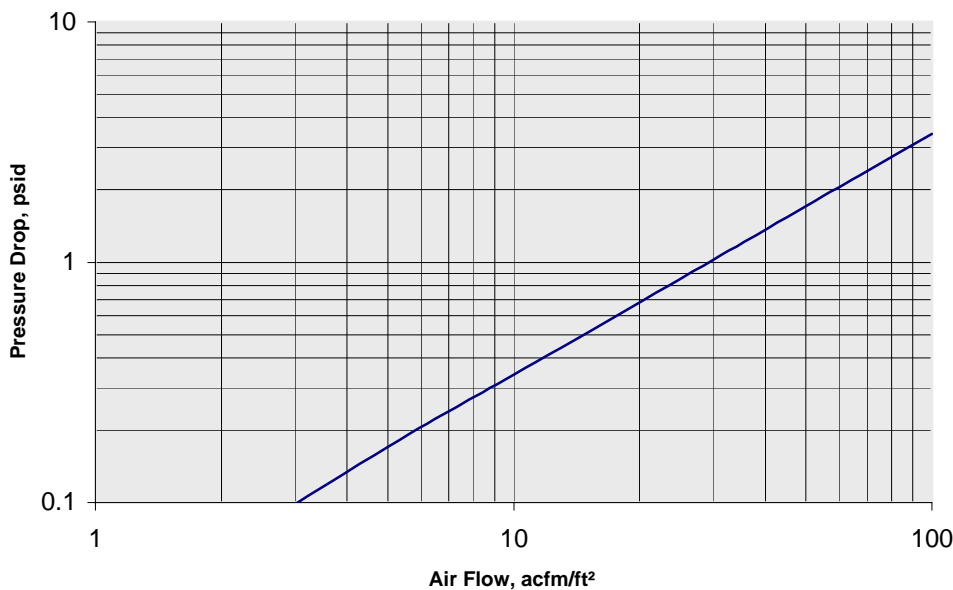
Liquid Efficiency Testing per ASTM F795
 90% at 4 μm Tested at 1 gpm/ft²
 99% at 5.5 μm
 99.9% at 9 μm

Air Efficiency Tested at flux of 6 acfm/ft²
 90% at 0.3 μm
 99% at 0.6 μm
 99.9% at 2 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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Mott Porous Metal Data Sheet

Media Grade: 5
Type: Rolled Sheet
Alloy: 316LSS
Thickness: 0.062 inches

Issued: 06/22/10

Manufacturing Specifications

Bubble Point, inch water 13.0 - 16.9
 Minimum Tensile, kpsi 9.2
 Yield Strength, kpsi 8.5
 Young's Modulus, x 10⁶ psi 4.1

Permeability Coefficient

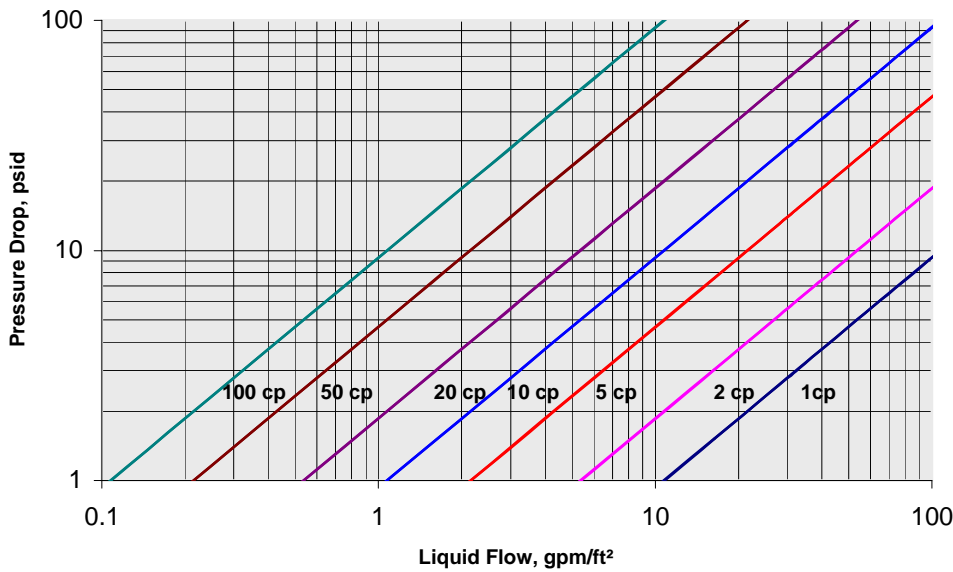
Liquid, K_L 1.5
 Gas, K_G 15

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

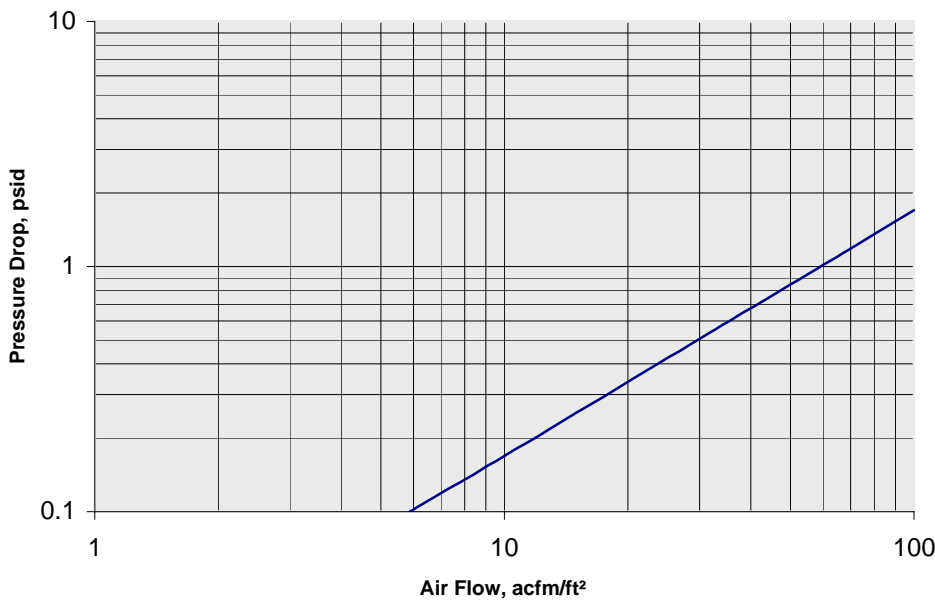
Particle Removal Efficiency

Liquid Efficiency Testing per ASTM F795
 90% at 5 μm Tested at 1 gpm/ft²
 99% at 8 μm
 99.9% at 13 μm

Air Efficiency Tested at flux of 6 acfm/ft²
 90% at 0.8 μm
 99% at 2 μm
 99.9% at 5 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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Mott Porous Metal Data Sheet

Media Grade: 10
Type: Rolled Sheet
Alloy: 316LSS
Thickness: 0.062 inches

Issued: 06/22/10

Manufacturing Specifications

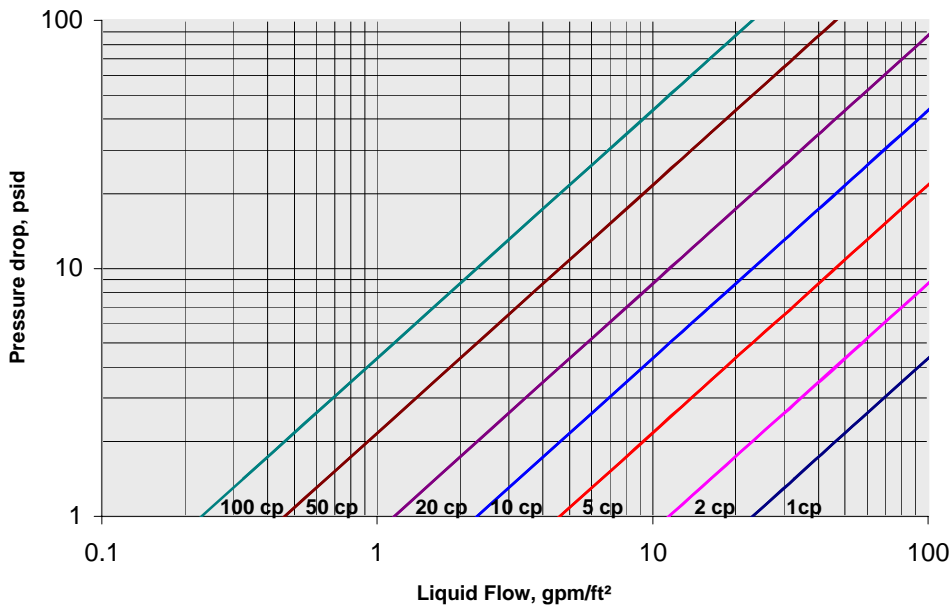
Bubble Point, inch water 7.5 - 10.9
 Minimum Tensile, kpsi 7.5
 Yield Strength, kpsi 6.0
 Young's Modulus, x 10⁶ psi 3.2

Permeability Coefficient

Liquid, K_L 0.7
 Gas, K_G 7.0
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)

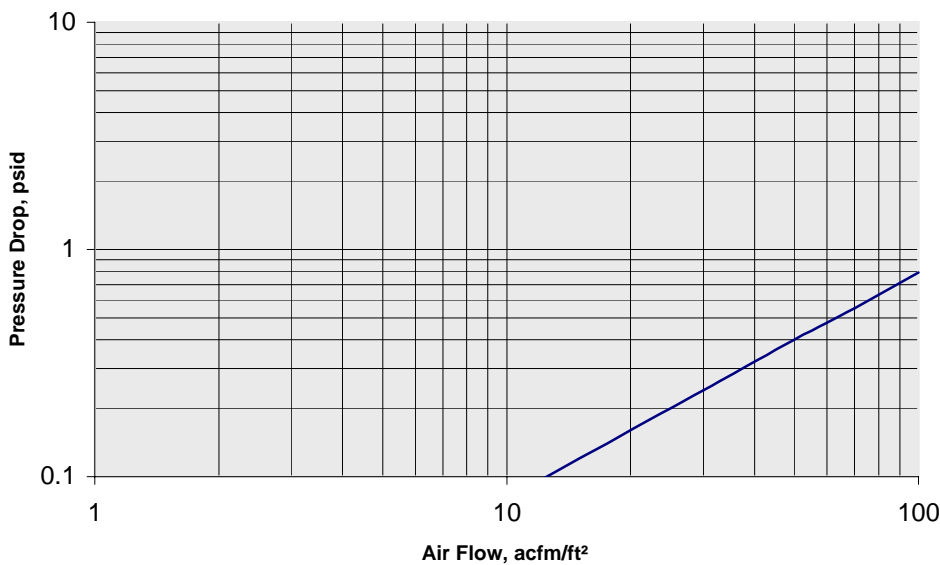
Particle Removal Efficiency

Liquid Efficiency Testing per ASTM F795
 Tested at 1 gpm/ft²
 90% at 10 μm
 99% at 15 μm
 99.9% at 20 μm
Air Efficiency Tested at flux of 6 acfm/ft²
 90% at 4.5 μm
 99% at 8 μm
 99.9% at 13 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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Mott Porous Metal Data Sheet

Media Grade: 20
Type: Rolled Sheet
Alloy: 316LSS
Thickness: 0.062 inches

Issued: 06/22/10

Manufacturing Specifications

Bubble Point, inch water 4.5 - 7.0
 Minimum Tensile, kpsi 5.7
 Yield Strength, kpsi 5.0
 Young's Modulus, x 10⁶ psi 2.5

Permeability Coefficient

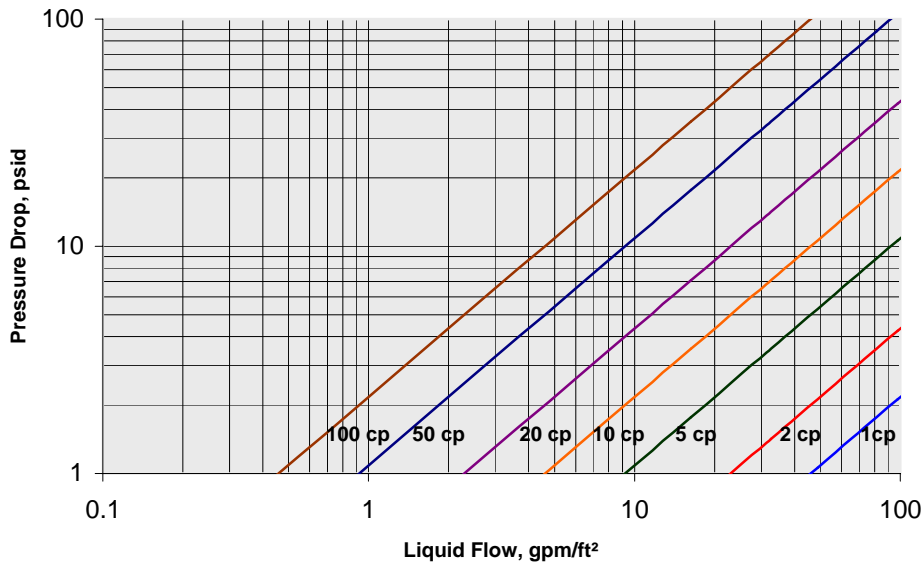
Liquid, K_L 0.35
 Gas, K_G 4.7

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

Particle Removal Efficiency

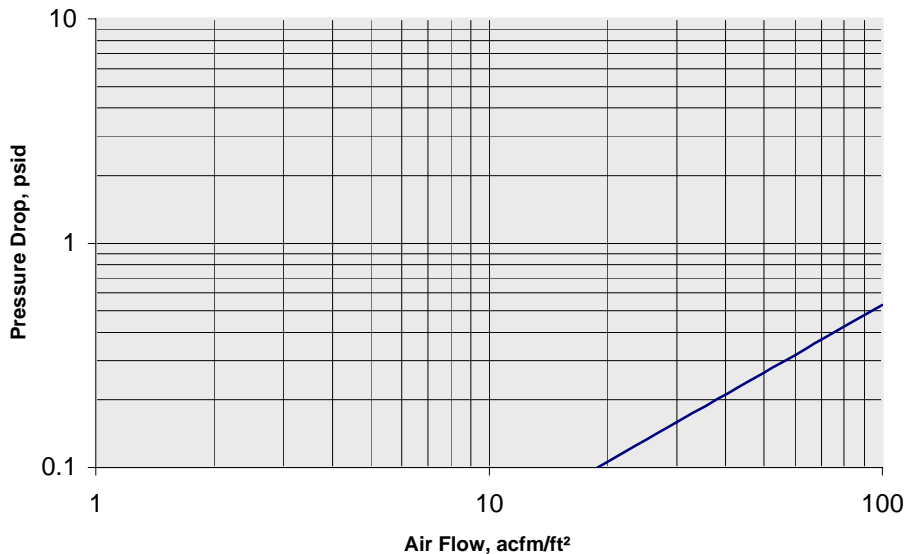
Liquid Efficiency Testing per ASTM F795
 Tested at 1 gpm/ft²
 90% at 20 μm
 99% at 25 μm
 99.9% at 35 μm

Air Efficiency Tested at flux of 6 acfm/ft²
 90% at 8 μm
 99% at 12 μm
 99.9% at 20 μm



Notes:

- 1 - Tests run at 70 °F
- 2 - Tests run with water, other curves generated using K_L



Notes:

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

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Mott Porous Metal Data Sheet

Media Grade: 40
Type: Rolled Sheet
Alloy: 316LSS
Thickness: 0.078 inches

Issued: 06/22/10

Manufacturing Specifications

Bubble Point, inch water 2.5 - 4.0
 Minimum Tensile, kpsi 4.0
 Yield Strength, kpsi 3.5
 Young's Modulus, x 10⁶ psi 1.9

Permeability Coefficient

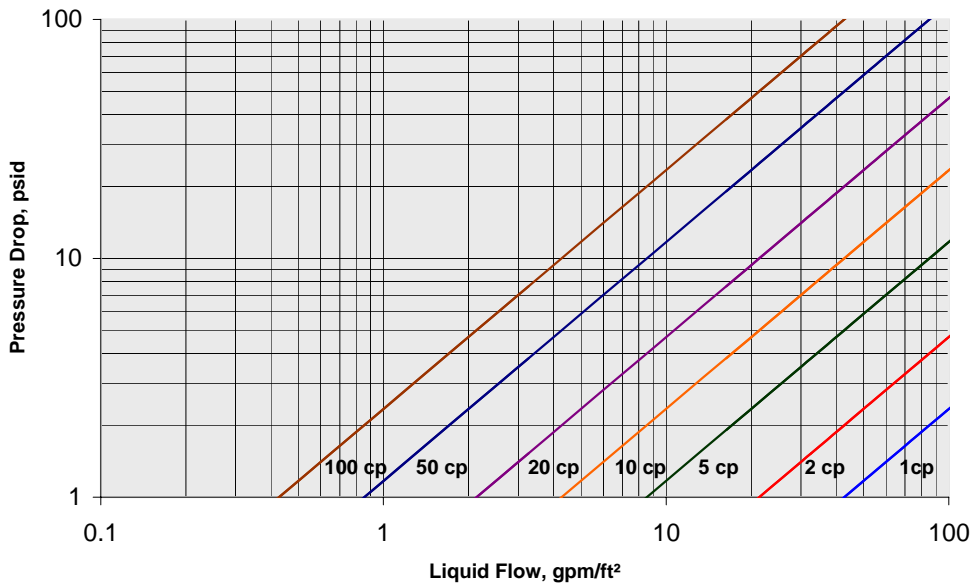
Liquid, K_L 0.30
 Gas, K_G 2.9

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

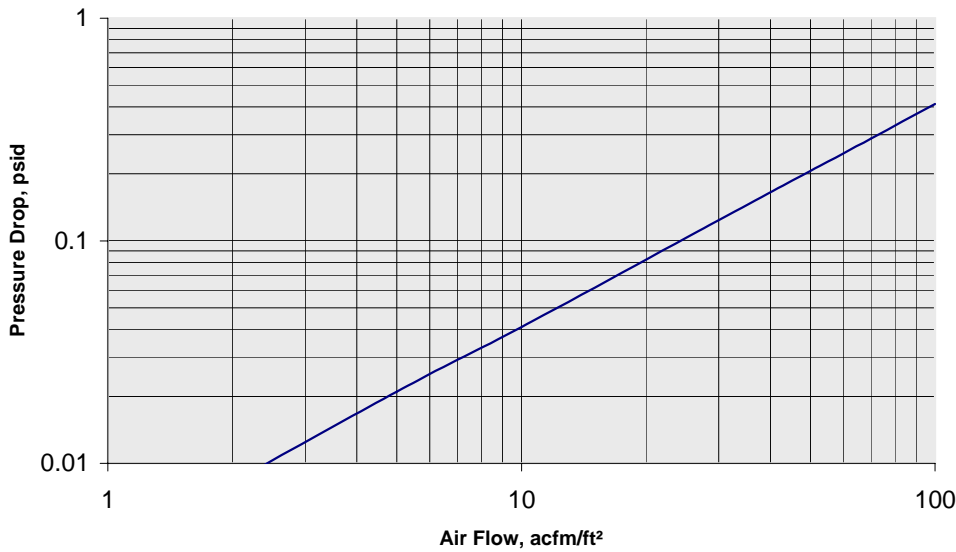
Liquid Efficiency Testing per ASTM F795
 Tested at 1 gpm/ft²
 90% at 25 μm
 99% at 35 μm
 99.9% at 45 μm

Air Efficiency Tested at flux of 6 acfm/ft²
 90% at 12 μm
 99% at 25 μm
 99.9% at 45 μm



Notes:

- 1 - Tests run at 70 °F
- 2 - Tests run with water, other curves generated using K_L



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.

Mott Porous Metal Data Sheet

Media Grade: 100
Type: Rolled Sheet
Alloy: 316LSS
Thickness: 0.093 inches

Issued: 06/22/10

Manufacturing Specifications

Bubble Point, inch water 0.5 - 1.5
 Minimum Tensile, kpsi 1.3
 Yield Strength, kpsi 1.0
 Young's Modulus, x 10⁶ psi 1.4

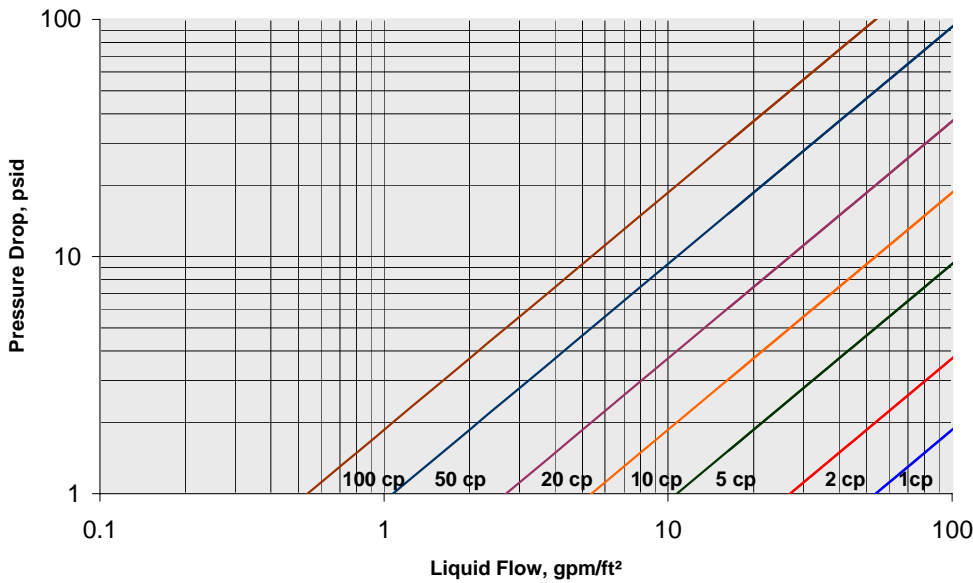
Permeability Coefficient

Liquid, K_L 0.20
 Gas, K_G 1.9
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

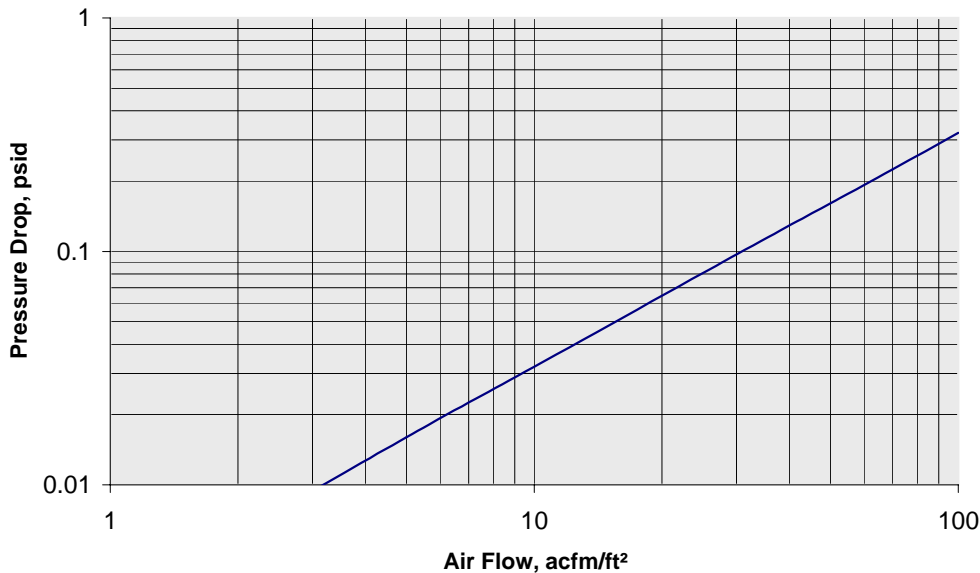
Liquid Efficiency Testing per ASTM F795
 Tested at 1 gpm/ft²
 90% at 50 μm
 99% at 100 μm
 99.9% at 150 μm

Air Efficiency Tested at flux of 6 acfm/ft²
 90% at 20 μm
 99% at 40 μm
 99.9% at 100 μm



Notes:

- 1 - Tests run at 70 °F
- 2 - Tests run with water, other curves generated using K_L



Notes:

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

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