# Mott Porous Metal Data Sheet

**Media Grade:** 5  
**Type:** Pressed Disc  
**Alloy:** 316LSS  
**Thickness:** 0.062 inches  
**Issued:** 06/25/10

## Manufacturing Specifications
- **Bubble Point, inch water:** 13.0 - 16.9
- **Minimum Tensile, kpsi:** 9.5
- **Yield Strength, kpsi:** 6.8
- **Young’s Modulus, x 10⁶ psi:** 3.7

## Permeability Coefficient
- **Liquid:** $K_L = 1.25$
- **Gas:** $K_G = 19$

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

- **Air Efficiency**
  - 90% at 0.8 µm
  - 99% at 2 µm
  - 99.9% at 5 µm
  - Tested at flux of 6 acfm/ft²

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

## Flow Characteristics
- **Liquid Flow, gpm/ft²**  
  - Pressure Drop, psid =
    - 100 cp  
    - 50 cp  
    - 20 cp  
    - 10 cp  
    - 5 cp  
    - 2 cp  
    - 1 cp

- **Air Flow, acfm/ft²**  
  - Pressure Drop, psid =
    - 10  
    - 1

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