### Mott Porous Metal Data Sheet

**Media Grade:** 20  
**Type:** Pressed Cups  
**Alloy:** 316LSS  
**Outer Diameter:** 0.5 inches  
**Inner Diameter:** 0.250 inches  
**Length:** 1.0 inches

#### Manufacturing Specifications
- **Bubble Point, inch water:** 5.0 - 7.0
- **Minimum Tensile, kpsi:** 4.5
- **Yield Strength, kpsi:** 2.9
- **Young’s Modulus, x 10⁶ psi:** 2.3

#### Permeability Coefficient
- **Liquid, \( K_L \):** 0.43
- **Gas, \( K_G \):** 3.3

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

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

#### Particle Removal Efficiency
- **Liquid Efficiency**
  - 90% at 18 µm
  - 99% at 22 µm
  - 99.9% at 30 µm

- **Air Efficiency**
  - Tested at flux of 6 acfm/ft²
  - 90% at 5 µm
  - 99% at 9 µm
  - 99.9% at 15 µm

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

### Flow Characteristics Graphs
- **Liquid Flow, gpm/ft² vs. Pressure Drop, psid**
- **Air Flow, acfm/ft² vs. Pressure Drop, psid**

**Notes:**
1. Tests run with air 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.