

Porous Gold Foam

Catlog Number: BMBCC-0063

• Description

Three-dimensional gold scaffold with high surface area, designed for high-end micro-batteries and precision biosensor power sources.

• Basic Information

Substrate Material: Pure Gold

Purity (%): ≥ 99.99

Thickness (μm): 500

Width (mm): 50

Areal Density (g/m^2): 1500 - 1800

Tensile Strength (MPa): ≥ 5

Elongation (%): ≥ 10.0

Surface Finish: Porous 3D

Surface Roughness (Ra, μm): Pore: 10-50 μm

Electrical Resistivity ($\Omega\cdot\text{m}$): 2.2×10^{-8}

Thermal Conductivity ($\text{W}/\text{m}\cdot\text{K}$): 315

Melting Point ($^{\circ}\text{C}$): 1064

Oxidation Resistance (Temp/Time): 600 $^{\circ}\text{C}$ / 60min

Coating Type: N/A

Coating Thickness (μm): N/A

Core ID (mm): N/A

Standard Length (m): 0.1 (Sheet)

Operating Voltage Range (V): 0.0 - 1.5

Application Compatibility: Micro-batteries

Storage Requirements: General Storage

Form Factor: Sheet

Hydrophilic Properties: Bio-compatible

Compliance / Grade: Research Grade

 For Research or Industrial Raw Materials, Not For Personal Medical Use!