

## Gold-Plated Titanium Foil

Catlog Number: BMBCC-0089

### • Description

Titanium foil with a non-porous gold plating layer for high-potential stability and bio-electrochemical applications.

### • Basic Information

Substrate Material: Grade 1 Ti

Purity (%):  $\geq 99.9$

Thickness ( $\mu\text{m}$ ): 25

Width (mm): 100

Areal Density ( $\text{g}/\text{m}^2$ ): 120 - 130

Tensile Strength (MPa):  $\geq 240$

Elongation (%):  $\geq 15.0$

Surface Finish: Gold Plated

Surface Roughness ( $R_a$ ,  $\mu\text{m}$ ):  $\leq 0.15$

Electrical Resistivity ( $\Omega\cdot\text{m}$ ):  $4.2 \times 10^{-7}$

Thermal Conductivity ( $\text{W}/\text{m}\cdot\text{K}$ ): 22

Melting Point ( $^{\circ}\text{C}$ ): 1668

Oxidation Resistance (Temp/Time):  $500^{\circ}\text{C}$  / 60min

Coating Type: Gold (Au)

Coating Thickness ( $\mu\text{m}$ ): 0.2 - 0.5

Core ID (mm): 38

Standard Length (m): 5

Operating Voltage Range (V): 0.0 - 6.0

Application Compatibility: Bio-fuel Cells

Storage Requirements: Room Temp

Form Factor: Roll

Hydrophilic Properties: Corrosion Proof

Compliance / Grade: Lab Grade

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