Eata Battery

Nano-Carbon Coated Titanium Plate

Catlog Number: FCSM-0028

Description

Titanium bipolar plate featuring a proprietary nano-carbon composite coating that eliminates the need for noble metal plating while maintaining low contact resistance.

Basic Information

Material Composition: Ti Grade 1 / Nano-Carbon

Thickness (μm): 150

Density (g/cm³): 4.5

Surface Resistance (mΩ·cm²): < 5

Tensile Strength (MPa): 300

Thermal Conductivity (W/m·K): 18

Operating Temp Max (°C): 200

Flexural Strength (MPa): N/A

Corrosion Resistance (μA/cm²): < 0.5

Contact Angle (°): 88

Coefficient of Thermal Expansion (10^{-6}/K): 8.9

Shore Hardness: 130 (HV)

Mean Pore Size (μm): N/A

Compressive Strength (MPa): 350

Electrical Conductivity (S/cm): 500 (Coating)

Specific Surface Area (m²/g): N/A

Young's Modulus (GPa): 105

Chemical Stability: Excellent Acid Res

Coating Material: Nano-Carbon

Surface Roughness (Ra): 0.2

Eata Battery delivers the world's battery makers a single, reliable source for every high-performance raw material—cathode to collector, catalyst to membrane—so you can design, scale and ship next-generation batteries faster.

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