Eata Battery

Carbon Coated Stainless Steel Foil

Catlog Number: BMBCC-0079

Description

304SS foil with a conductive carbon coating to enhance adhesion and electrical contact in high-voltage solid-state batteries.

Basic Information

Substrate Material: SUS 304

Purity (%): Fe: Bal / Cr: 18

Thickness (μm): 12

Width (mm): 180

Areal Density (g/m²): 95 - 100

Tensile Strength (MPa): ≥550

Elongation (%): ≥15.0

Surface Finish: Carbon Coated

Surface Roughness (Ra, μm): ≤0.35

Electrical Resistivity (Ω·m): <0.15 (Surface)

Thermal Conductivity (W/m·K): 16.2

Melting Point (°C): 1400

Oxidation Resistance (Temp/Time): 300°C / 30min

Coating Type: Conductive Carbon

Coating Thickness (μm): 1.0 - 3.0

Core ID (mm): 76

Standard Length (m): 50

Operating Voltage Range (V): 0.0 - 5.0

Application Compatibility: Solid-State Cells

Storage Requirements: Dry Storage

Form Factor: Roll

Hydrophilic Properties: Enhanced Adhesion

Compliance / Grade: Industrial Grade

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