

Niobium Foil Collector

Catlog Number: BMBCC-0047

• Description

Highly specialized refractory metal foil for use in high-voltage lithium-sulfur or solid-state systems requiring chemical inertness.

• Basic Information

Substrate Material: Niobium

Purity (%): ≥ 99.95

Thickness (μm): 25

Width (mm): 100

Areal Density (g/m^2): 210 - 220

Tensile Strength (MPa): ≥ 350

Elongation (%): ≥ 15.0

Surface Finish: Cold Rolled

Surface Roughness (R_a , μm): ≤ 0.25

Electrical Resistivity ($\Omega\cdot\text{m}$): 1.4×10^{-7}

Thermal Conductivity ($\text{W}/\text{m}\cdot\text{K}$): 54

Melting Point ($^{\circ}\text{C}$): 2468

Oxidation Resistance (Temp/Time): 400°C / 30min

Coating Type: N/A

Coating Thickness (μm): N/A

Core ID (mm): N/A

Standard Length (m): 1 (Sheet)

Operating Voltage Range (V): 0.0 - 5.0

Application Compatibility: Solid-State Cells

Storage Requirements: General Storage

Form Factor: Sheet

Hydrophilic Properties: Chemical Stability

Compliance / Grade: Research Grade

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