

Hafnium Foil Current Collector

Catlog Number: BMBCC-0054

• Description

Rare-earth metal foil with extreme thermal stability and corrosion resistance for specialized nuclear and aerospace battery research.

• Basic Information

Substrate Material: Hafnium

Purity (%): ≥ 99.9

Thickness (μm): 25

Width (mm): 50

Areal Density (g/m^2): 320 - 335

Tensile Strength (MPa): ≥ 450

Elongation (%): ≥ 5.0

Surface Finish: Cold Rolled

Surface Roughness (R_a , μm): ≤ 0.30

Electrical Resistivity ($\Omega\cdot\text{m}$): 3.3×10^{-7}

Thermal Conductivity ($\text{W}/\text{m}\cdot\text{K}$): 23

Melting Point ($^{\circ}\text{C}$): 2233

Oxidation Resistance (Temp/Time): 600°C / 30min

Coating Type: N/A

Coating Thickness (μm): N/A

Core ID (mm): N/A

Standard Length (m): 0.5 (Sheet)

Operating Voltage Range (V): 0.0 - 4.2

Application Compatibility: Aerospace Storage

Storage Requirements: General Dry

Form Factor: Sheet

Hydrophilic Properties: Extreme Stability

Compliance / Grade: Laboratory Grade

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