

Vanadium Foil Current Collector

Catlog Number: BMBCC-0078

• Description

Transition metal foil with high chemical stability in aggressive vanadium redox flow battery (VRFB) electrolytes and systems.

• Basic Information

Substrate Material: Vanadium

Purity (%): ≥ 99.8

Thickness (μm): 25

Width (mm): 50

Areal Density (g/m^2): 150 - 155

Tensile Strength (MPa): ≥ 380

Elongation (%): ≥ 15.0

Surface Finish: Cold Rolled

Surface Roughness (R_a , μm): ≤ 0.20

Electrical Resistivity ($\Omega\cdot\text{m}$): 2.5×10^{-7}

Thermal Conductivity ($\text{W}/\text{m}\cdot\text{K}$): 31

Melting Point ($^{\circ}\text{C}$): 1910

Oxidation Resistance (Temp/Time): 300°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 - 2.5

Application Compatibility: VRFB Systems

Storage Requirements: Dry / Airtight

Form Factor: Sheet

Hydrophilic Properties: Chemical Inertness

Compliance / Grade: Research Grade

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