Eata Battery

Nitrogen-Doped Graphene Ni Mesh

Catlog Number: BMBCC-0093

Description

3D nickel mesh modified with N-doped graphene for enhanced electron transport and interface stability in sulfur cathodes.

Basic Information

Substrate Material: Nickel Mesh

Purity (%): ≥99.9

Thickness (μm): 100

Width (mm): 150

Areal Density (g/m²): 280 - 320

Tensile Strength (MPa): ≥210

Elongation (%): ≥6.0

Surface Finish: N-Graphene Coated

Surface Roughness (Ra, μm): 200 Mesh

Electrical Resistivity (Ω·m): <0.05 (Surface)

Thermal Conductivity (W/m·K): 95

Melting Point (°C): 1450

Oxidation Resistance (Temp/Time): 350°C / 30min

Coating Type: N-Graphene

Coating Thickness (μm): 0.5 - 1.5

Core ID (mm): N/A

Standard Length (m): 5

Operating Voltage Range (V): 1.5 - 3.0

Application Compatibility: Lithium-Sulfur

Storage Requirements: Inert Gas

Form Factor: Mesh Roll

Hydrophilic Properties: Lithiophilic

Compliance / Grade: Laboratory Grade

Tel: 1-631-637-0420 | 1-631-533-0595
Email: info@eataray.com
Suite 103, 17 Ramsey Road, Shirley, NY 11967, USA