Eata Battery

Indium Nanopowder

Catlog Number: BMAM-0042

Description

Ultra-pure indium nanoparticles used to create soft, conductive interfaces in solid-state batteries, helping to maintain contact during cycling.

Basic Information

Chemical Formula: In

Appearance: Grey Powder

D50 Particle Size: 60 - 150 nm

Tap Density: ≥ 1.5 g/cm³

BET Surface Area: 10 - 30 m²/g

1st Discharge Capacity: ≥ 400 mAh/g

1st Coulombic Efficiency: ≥ 90%

Carbon Content: N/A

Active Metal Content: In: ≥ 99.9%

Ash Content: ≤ 0.05%

Moisture Content: ≤ 0.10%

pH Value: 6.0 - 7.5

Iron (Fe) Impurity: ≤ 20 ppm

True Density: 7.3 g/cm³

Compaction Density: N/A

Crystal Structure: Tetragonal

Surface Coating: Oxide layer

Magnetic Impurities: ≤ 20 ppb

Electronic Conductivity: ~10^5 S/cm

Voltage Range: 0.01 - 1.2 V

Purity: ≥ 99.9%

Primary Application: Solid-state research

Thermal Stability: Moderate

Cycle Life: ≥ 400 cycles

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

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