Eata Battery

NMC 523 (High Voltage)

Catlog Number: BMCM-0025

Description

Specially doped NMC 523 optimized for 4.5V operation, providing increased energy density while maintaining the safety profile of mid-nickel ternary.

Basic Information

Chemical Formula: LiNi0.5Mn0.3Co0.2O2

Appearance: Black Powder

Molecular Weight: 96.65 g/mol

D50 Particle Size: 8 - 11 μm

Tap Density: ≥ 2.4 g/cm³

BET Surface Area: 0.2 - 0.4 m²/g

1st Discharge Capacity: ≥ 185 mAh/g

1st Coulombic Efficiency: ≥ 88%

pH Value: ≤ 11.0

Moisture Content: ≤ 0.05%

Magnetic Impurities: ≤ 50 ppb

Li/Na Content: 7.1 - 7.5%

Ni Content: 29.5 - 31.5%

Mn Content: 16.5 - 18.5%

Co Content: 11.5 - 13.5%

Transition Metals: Ni-Mn-Co

Crystal Structure: Layered Structure

Compaction Density: ≥ 3.5 g/cm³

Storage Conditions: Sealed, dry

Conductivity: ~10^{-4} S/cm

Voltage Range: 3.0 - 4.5 V

Purity: ≥ 99.9%

Primary Application: Power-type EV, Mobile

Thermal Stability: High

Cycle Life: > 1200 cycles

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