Eata Battery

Cation-Disordered Rock-Salt (DRX)

Catlog Number: BMCM-0060

Description

DRX cathode material utilizing oxygen redox mechanisms to achieve exceptionally high capacity, representing the limit of experimental oxide research.

Basic Information

Chemical Formula: Li1.3Nb0.3Mn0.4O2

Appearance: Black Powder

Molecular Weight: ~105 g/mol

D50 Particle Size: 5 - 12 μm

Tap Density: ≥ 1.4 g/cm³

BET Surface Area: 1.0 - 5.0 m²/g

1st Discharge Capacity: ≥ 285 mAh/g

1st Coulombic Efficiency: ≥ 80%

pH Value: 10.0 - 12.0

Moisture Content: ≤ 0.15%

Magnetic Impurities: ≤ 100 ppb

Li/Na Content: 9.0 - 10.0%

Ni Content: N/A

Mn Content: 20 - 25%

Co Content: N/A

Transition Metals: Mn-Nb Oxide

Crystal Structure: Disordered Cubic

Compaction Density: ≥ 2.4 g/cm³

Storage Conditions: Vacuum Sealed

Conductivity: ~10^{-6} S/cm

Voltage Range: 1.5 - 4.8 V

Purity: ≥ 99.0%

Primary Application: Ultra-high energy LIB

Thermal Stability: Moderate

Cycle Life: > 200 cycles

Eata Battery delivers the world's battery makers a single, reliable source for every high-performance raw material—cathode to collector, catalyst to membrane—so you can design, scale and ship next-generation batteries faster.

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