Eata Battery

Sodium Vanadium Oxide

Catlog Number: BMCM-0030

Description

Layered sodium vanadate material with high theoretical capacity, optimized for research into both organic and aqueous sodium-ion battery electrolytes.

Basic Information

Chemical Formula: NaV_3O_8

Appearance: Yellow/Brown Powder

Molecular Weight: 325.8 g/mol

D50 Particle Size: 1 - 10 µm

Tap Density: ≥ 0.7 g/cm³

BET Surface Area: 10 - 30 m²/g

1st Discharge Capacity: ≥ 180 mAh/g

1st Coulombic Efficiency: ≥ 90%

pH Value: 4.0 - 6.0

Moisture Content: ≤ 0.20%

Magnetic Impurities: ≤ 100 ppb

Li/Na Content: 6.5 - 7.5% (Na)

Ni Content: N/A

Mn Content: N/A

Co Content: N/A

Transition Metals: Vanadium Oxide

Crystal Structure: Layered Monoclinic

Compaction Density: ≥ 1.8 g/cm³

Storage Conditions: Sealed, Dry

Conductivity: ~10^{-3} S/cm

Voltage Range: 1.5 - 4.0 V

Purity: ≥ 99.5%

Primary Application: Aqueous Sodium-ion

Thermal Stability: High

Cycle Life: > 500 cycles

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

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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