Eata Battery

NASICON-type Na3MnTi(PO4)3

Catlog Number: BMCM-0032

Description

Titanium-manganese based NASICON cathode offering two voltage plateaus and excellent structural stability for long-life sodium energy storage.

Basic Information

Chemical Formula: Na3MnTi(PO4)3

Appearance: Grey Powder

Molecular Weight: ~420 g/mol

D50 Particle Size: 2 - 8 µm

Tap Density: ≥ 0.8 g/cm³

BET Surface Area: 12 - 22 m²/g

1st Discharge Capacity: ≥ 110 mAh/g

1st Coulombic Efficiency: ≥ 94%

pH Value: 7.0 - 9.0

Moisture Content: ≤ 0.12%

Magnetic Impurities: ≤ 50 ppb

Li/Na Content: 15.5 - 16.5% (Na)

Ni Content: N/A

Mn Content: 12 - 14%

Co Content: N/A

Transition Metals: Mn-Ti Phosphate

Crystal Structure: NASICON Structure

Compaction Density: ≥ 2.0 g/cm³

Storage Conditions: Inert gas, Dry

Conductivity: ~10^{-7} S/cm

Voltage Range: 2.0 - 4.2 V

Purity: ≥ 99.0%

Primary Application: Low-cost SIB storage

Thermal Stability: High

Cycle Life: > 2000 cycles

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