Eata Battery

Titanium Dioxide (Anatase)

Catlog Number: BMAM-0024

Description

Nanostructured anatase TiO2 providing a safe voltage plateau and high rate capability for both lithium and sodium-ion insertion/extraction.

Basic Information

Chemical Formula: TiO2

Appearance: White Powder

D50 Particle Size: 100 - 300 nm

Tap Density: ≥ 0.9 g/cm³

BET Surface Area: 20 - 60 m²/g

1st Discharge Capacity: ≥ 170 mAh/g

1st Coulombic Efficiency: ≥ 94%

Carbon Content: N/A

Active Metal Content: Ti: ≥ 58%

Ash Content: ≤ 0.20%

Moisture Content: ≤ 0.10%

pH Value: 6.5 - 8.0

Iron (Fe) Impurity: ≤ 40 ppm

True Density: 3.8 - 4.0 g/cm³

Compaction Density: ≥ 1.8 g/cm³

Crystal Structure: Tetragonal

Surface Coating: None

Magnetic Impurities: ≤ 30 ppb

Electronic Conductivity: ~10^{-9} S/cm

Voltage Range: 1.0 - 3.0 V

Purity: ≥ 99.8%

Primary Application: Safe LIB/SIB

Thermal Stability: Excellent

Cycle Life: ≥ 2000 cycles

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