Eata Battery

Amorphous Carbon (Bio-derived)

Catlog Number: BMAM-0022

Description

Sustainably sourced amorphous carbon with high interlayer spacing, specifically tuned for stable and cost-effective sodium-ion storage solutions.

Basic Information

Chemical Formula: C

Appearance: Black Powder

D50 Particle Size: 4 - 8 μm

Tap Density: ≥ 0.65 g/cm³

BET Surface Area: 5.0 - 12 m²/g

1st Discharge Capacity: ≥ 300 mAh/g

1st Coulombic Efficiency: ≥ 85%

Carbon Content: ≥ 99.0%

Active Metal Content: N/A

Ash Content: ≤ 0.15%

Moisture Content: ≤ 0.10%

pH Value: 6.0 - 8.5

Iron (Fe) Impurity: ≤ 60 ppm

True Density: 1.5 - 1.7 g/cm³

Compaction Density: ≥ 1.0 g/cm³

Crystal Structure: Amorphous

Surface Coating: None

Magnetic Impurities: ≤ 80 ppb

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

Voltage Range: 0.01 - 2.5 V

Purity: ≥ 99.5%

Primary Application: Low-cost SIB

Thermal Stability: High

Cycle Life: ≥ 1200 cycles

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

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