Eata Battery

Nitrogen-Doped Graphene

Catlog Number: BMAM-0020

Description

Chemically doped graphene with nitrogen atoms to increase active sites and enhance electronic conductivity, ideal for high-power density applications.

Basic Information

Chemical Formula: N-Graphene

Appearance: Black Flakes

D50 Particle Size: 8 - 15 μm

Tap Density: ≥ 0.12 g/cm³

BET Surface Area: 500 - 800 m²/g

1st Discharge Capacity: ≥ 500 mAh/g

1st Coulombic Efficiency: ≥ 78%

Carbon Content: ≥ 95%

Active Metal Content: N: 3-5 wt%

Ash Content: ≤ 0.20%

Moisture Content: ≤ 0.60%

pH Value: 7.0 - 9.0

Iron (Fe) Impurity: ≤ 40 ppm

True Density: 2.0 - 2.2 g/cm³

Compaction Density: N/A

Crystal Structure: 2D Doped

Surface Coating: Nitrogen

Magnetic Impurities: ≤ 20 ppb

Electronic Conductivity: ~10³ S/cm

Voltage Range: 0.01 - 3.0 V

Purity: ≥ 98.0%

Primary Application: High-rate capacitors

Thermal Stability: Excellent

Cycle Life: ≥ 2000 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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