Eata Battery

# Boron-Doped Graphite

**Catlog Number: BMAM-0058**

## Description

Graphitic carbon doped with boron to enhance crystallinity and increase the lithium-ion diffusion rate, ideal for high-power density applications.

## Basic Information

Chemical Formula: C (B-Doped)

Appearance: Black Powder

D50 Particle Size: 15 - 20 μm

Tap Density: ≥ 1.1 g/cm³

BET Surface Area: 1.0 - 2.5 m²/g

1st Discharge Capacity: ≥ 355 mAh/g

1st Coulombic Efficiency: ≥ 94%

Carbon Content: ≥ 99.0%

Active Metal Content: B: 0.5-2 wt%

Ash Content: ≤ 0.05%

Moisture Content: ≤ 0.10%

pH Value: 6.0 - 8.0

Iron (Fe) Impurity: ≤ 30 ppm

True Density: 2.23 - 2.26 g/cm³

Compaction Density: ≥ 1.65 g/cm³

Crystal Structure: Hexagonal

Surface Coating: Boron

Magnetic Impurities: ≤ 30 ppb

Electronic Conductivity: ~$10^3$ S/cm

Voltage Range: 0.01 - 1.5 V

Purity: ≥ 99.9%

Primary Application: High-rate LIB

Thermal Stability: High

Cycle Life: ≥ 1500 cycles

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



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