Eata Battery

Silicon-Graphite (Si-Gr)

Catlog Number: BMAM-0051

Description

Optimized blend of silicon and artificial graphite designed for commercial EV applications, balancing high energy density with long-term cycling stability.

Basic Information

Chemical Formula: Si-Gr

Appearance: Dark Grey Powder

D50 Particle Size: 12 - 18 μm

Tap Density: ≥ 1.1 g/cm³

BET Surface Area: 2.0 - 5.0 m²/g

1st Discharge Capacity: ≥ 420 mAh/g

1st Coulombic Efficiency: ≥ 90%

Carbon Content: ~85 wt%

Active Metal Content: Si: 5 - 10 wt%

Ash Content: ≤ 0.10%

Moisture Content: ≤ 0.10%

pH Value: 6.0 - 8.0

Iron (Fe) Impurity: ≤ 40 ppm

True Density: 2.1 - 2.3 g/cm³

Compaction Density: ≥ 1.6 g/cm³

Crystal Structure: Composite

Surface Coating: Carbon

Magnetic Impurities: ≤ 50 ppb

Electronic Conductivity: ~10^2 S/cm

Voltage Range: 0.01 - 1.5 V

Purity: ≥ 99.9%

Primary Application: Standard EV cells

Thermal Stability: Moderate

Cycle Life: ≥ 1000 cycles

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

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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