

## Pre-lithiated Hard Carbon

Catlog Number: BMAM-0049

### • Description

Pre-lithiated hard carbon designed to offset the initial irreversible capacity loss (ICE), significantly increasing the overall energy density of sodium-ion cells.

### • Basic Information

Chemical Formula: Li-C (Hard)

Appearance: Black Powder

D50 Particle Size: 6 - 12  $\mu\text{m}$

Tap Density:  $\geq 0.7 \text{ g/cm}^3$

BET Surface Area: 3.0 - 8.0  $\text{m}^2/\text{g}$

1st Discharge Capacity:  $\geq 330 \text{ mAh/g}$

1st Coulombic Efficiency:  $\geq 94\%$

Carbon Content:  $\geq 92 \text{ wt}\%$

Active Metal Content: Li: 2-4  $\text{wt}\%$

Ash Content:  $\leq 0.20\%$

Moisture Content:  $\leq 0.05\%$

pH Value: 10.0-12.0

Iron (Fe) Impurity:  $\leq 80 \text{ ppm}$

True Density: 1.6 - 1.8  $\text{g/cm}^3$

Compaction Density:  $\geq 1.0 \text{ g/cm}^3$

Crystal Structure: Disordered

Surface Coating: Lithium

Magnetic Impurities:  $\leq 50 \text{ ppb}$

Electronic Conductivity:  $\sim 10^{-2} \text{ S/cm}$

Voltage Range: 0.01 - 2.5 V

Purity:  $\geq 98.5\%$

Primary Application: High-efficiency SIB

Thermal Stability: High

Cycle Life:  $\geq 1200 \text{ cycles}$

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