NEI Corporation

Specification Sheet

NANOMYTE® BE-500E (Hard Carbon)

Active Material Characteristics

Product Description: Hard Carbon electrode sheet
Formula: C
Type: Anode
Average Particle Size (D_{50}): 5 µm
Specific Surface Area: 6 m^2/g

Electrode Tape Characteristics

Current Collector: Copper
Current Collector Thickness: 10 µm
Sheet Size: 5 in x 10 in (127 mm x 254 mm)
Coating: Single or Double-sided sheets (as specified)
Areal Capacity: 2.40 mAh/cm^2 ± 5% (per side)
Active Material Loading: 10.21 mg/cm^2 ± 5% (per side)
Tape Thickness: 45 µm (excluding current collector)

Standard Tape Composition:

%	Material	Description
90%	Hard Carbon [“C”]	(active material)
5%	Poly(vinylidene fluoride) [“PVDF”]	(binder)
5%	Carbon Black [“Super P”]	(conductive carbon)

**Specifications can be modified upon request to accommodate different active material loadings, coating thickness, & capacity.*

Electrochemical Characteristics

Average Voltage vs. Li/Li^+: 0.01 V
Experimental Delithiation Capacity: 240 mAh/g
Experimental Lithiation Capacity: ≥ 290 mAh/g (0 – 2.5V @ 0.1C)

Recommended Operating Conditions

Maximum Charge Current: 2.0C
Maximum Discharge Current: 2.0C

Available Quantities

NEI’s standard electrode sheets are available in packages of 2, 5, 10, 25, 50, & 100 sheets. Bulk quantities also available.

Precautions for Safe Storage & Handling

Personal protective equipment should be used at all times. Avoid contact with eyes and skin. Ensure adequate ventilation and avoid inhalation of dusts. Wash hands thoroughly after handling. Store in a dry and sealed pouch or under inert atmosphere, away from heat. Avoid moisture. Refer to SDS for complete safety information of this material.

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