

NANOMYTE® BE-300E-AI (Activated Carbon)

Active Material Characteristics

Product Description: Activated Carbon electrode sheet

Formula: C

Average Particle Size (D₅₀): 5 – 10 μm

Specific Surface Area: ~1500 m²/g

Electrode Tape Characteristics

Current Collector: Aluminum

Current Collector Thickness: 16 μm

Sheet Size: 5 in x 10 in (12.7 cm x 25.4 cm)

Coating: Single or Double-sided sheets (as specified)

Areal Capacity: 1.25 mAh/cm² ± 5% (per side)

Active Material Loading: 5.7 mg/cm² ± 5% (per side)

Tape Thickness: 90 μm (excluding current collector)

Standard Tape Composition:

%	Material	Description
90%	Activated 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.

Electrical Characteristics

Average Voltage vs. Li/Li⁺: 0.3 V

Minimum Delithiation Capacity: 200 mAh/g

Experimental Capacity: ≥ 220 mAh/g (0 – 1V @ 0.1C)

Recommended Operating Conditions

Maximum Charge Current: 5C

Maximum Discharge Current: 5C

Available Quantities

NEI's 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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