

NANOMYTE® BE-150E (Silicon-Graphite)

Active Material Characteristics

Product Description: Silicon-Graphite composite electrode sheet
Formula: Si-C
Average Particle Size (D₅₀): < 20 μm

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-sided sheets
Areal Capacity: 4.0 mAh/cm² ± 5%
Active Material Loading: 1.25 mg/cm² ± 5% (silicon only)
Tape Thickness: 65 μm ± 5% (excluding current collector)

Standard Tape Composition:

%	Material	Description
20%	Silicon	(active material)
65%	Graphite	(active material)
9%	PAA-SBR	(water-based binder)
6%	Carbon mixture	(conductive carbon)

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

Electrical Characteristics

Average Voltage vs. Li/Li⁺: 0.1 V
Minimum Delithiation Capacity: 700 mAh/g (0.05 – 1V @ 0.05C)
Nominal Capacity: ≥ 750 mAh/g (0.05 – 1V @ 0.05C)

Available Quantities

NEI's standard electrode sheets are available in packages of 2, 5, & 10 sheets. Bulk quantities are 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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