NEI Corporation

Specification Sheet

NANOMYTE® BE-1000E (CF_x)

Active Material Characteristics

Product IDs: **BE-1000E** (single-sided) | **BE-1000E-DS** (double-sided)
Product Description: Carbon Monofluoride electrode sheet
Formula: CF_x
Purity: > 98%
Average Particle Size (APS): ~ 8 µm
Specific Surface Area: 130 m^2/g

Standard Electrode Characteristics

Current Collector: Aluminum (16 µm thick)
Sheet Dimensions: 5 in x 10 in (127 mm x 254 mm); coated edge-to-edge
Calendared: Yes
Electrode Coating: Single or Double-sided sheets (as specified)
Coating Thickness: 50 µm ± 5% (excluding current collector)
Areal Capacity: 5.0 mAh/cm^2 ± 5% (per side)
Active Material Loading: 6 mg/cm^2 ± 5% (per side)

Electrode Composition:

Weight %	Material	Description
80%	Carbon Monofluoride	(active material)
15%	Carbon Black	(conductive carbon)
5%	Poly(vinylidene fluoride)	(binder)

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

Electrochemical Characteristics

Average Discharge Voltage vs. Li/Li^+: ~2.5 V
Minimum Discharge Capacity: 800 mAh/g
Experimental Capacity at 0.05C: ≥ 890 mAh/g (at a cutoff voltage of 2V vs Li/Li^+)

Available Quantities

Electrode sheets are available in packs of 2, 5, 10, 25, 50, & 100 sheets. Bulk quantities available upon request.

Precautions for Safe Storage & Handling

Handling: Appropriate personal protective equipment should be used at all times. Avoid contact with eyes and skin. Handle in a dry and well-ventilated area. Avoid actions that abrade, sand, or grind the coated surface, which can release respirable dust.

Storage: Store sheets flat and in a cool, dry place, away from heat and moisture.

Note: In its manufactured and shipped form, this article does not pose a physical hazard or health risk to humans or the environment. However, processing that generates dust or exposure to extreme temperatures may release hazardous particles.

Refer to SDS for complete safety information of this material.

400 Apgar Drive – Unit E | Somerset, NJ 08873 | USA | (732) 868-3141 | productinfo@neicorporation.com

www.neicorporation.com