

NANOMYTE® NAB-85E

Active Material Characteristics

Product IDs:	NAB-85E (single-sided) NAB-85E-DS (double-sided)
Product Description:	Sodium Manganese Hexacyanoferrate (Prussian White) electrode sheet
Formula:	$\text{Na}_{1.79}\text{Mn}[\text{Fe}(\text{CN})_6]_{0.87}$
Average Particle Size (D₅₀):	1.5 μm
Specific Surface Area:	14.63 m ² /g

Electrode Tape 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:	105 μm ± 5% (excluding current collector)
Standard Expected Areal Capacity:	0.9 mAh/cm ² ± 5% (per side)
Active Material Loading:	6.94 mg/cm ² ± 5% (per side)

Standard Tape Composition:

Wt. %	Material	Description
80%	Sodium Manganese Hexacyanoferrate	(active material)
10%	Poly(vinylidene fluoride) ["PVDF"]	(binder)
10%	Carbon Black ["Super P"]	(conductive carbon)

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

Electrochemical Characteristics

Nominal Voltage vs. Na/Na⁺:	3.3 V
Minimum First Discharge Capacity:	120 mAh/g (2.7 – 4.2 V @ 0.1C)
Experimental First Discharge Capacity:	135 mAh/g (2.7 – 4.2 V @ 0.1C)

Available Quantities

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

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