

## NANOMYTE® NAB-10E

### Active Material Characteristics

<b>Product IDs:</b>	<b>NAB-10E</b> (single-sided)   <b>NAB-10E-DS</b> (double-sided)
<b>Product Description:</b>	Sodium Chromium Oxide electrode sheets
<b>Formula:</b>	NaCrO <sub>2</sub>
<b>Average Particle Size (D<sub>50</sub>):</b>	8.05 µm
<b>Specific Surface Area:</b>	1.35 m <sup>2</sup> /g

### Electrode Tape Characteristics

<b>Current Collector:</b>	Aluminum (16 µm thick)
<b>Sheet Dimensions:</b>	5 in x 10 in (127 mm x 254 mm); coated edge-to-edge
<b>Calendared:</b>	Yes
<b>Electrode Coating:</b>	Single or Double-sided sheets (as specified)
<b>Coating Thickness:</b>	75 µm ± 5% (excluding current collector)
<b>Standard Expected Areal Capacity:</b>	0.9 mAh/cm <sup>2</sup> ± 5% (per side)
<b>Active Material Loading:</b>	8.18 mg/cm <sup>2</sup> ± 5% (per side)

#### Standard Tape Composition:

Wt.%	Material	Description
80%	Sodium Chromium Oxide	(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

<b>Nominal Voltage vs. Na/Na<sup>+</sup>:</b>	2.95 V
<b>Minimum First Discharge Capacity:</b>	100 mAh/g (1.8 – 3.4 V @ 0.1C)
<b>Experimental First Discharge Capacity:</b>	110 mAh/g (1.8 – 3.4 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

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.](#)

**NOTE:** NEI Corporation believes that the information in this spec sheet is an accurate description of the typical use of the product. However, NEI disclaims any liability for incidental or consequential damages, which may result from the use of their products that are beyond its control. Employers should use this information only as a supplement to other information gathered by them and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. Therefore, it is the user's responsibility to thoroughly test the product in their particular application to determine its performance, efficacy, and safety. Nothing contained herein is to be considered as permission or a recommendation to infringe any patent or any other intellectual right.