

## Specification Sheet

## NANOMYTE® BE-40E (NCA)

### POWDER CHARACTERISTICS

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<b>Chemical Name:</b>	Lithium Nickel Cobalt Aluminum Oxide
<b>Formula:</b>	$\text{LiNi}_{0.8}\text{Co}_{0.15}\text{Al}_{0.05}\text{O}_2$
<b>Purity:</b>	> 98%
<b>Average Particle Size (APS):</b>	2 – 5 $\mu\text{m}$
<b>Specific Surface Area:</b>	1.5 – 3.0 $\text{m}^2/\text{g}$

### ELECTRODE TAPE CHARACTERISTICS

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<b>Standard Substrate:</b>	Aluminum
<b>Standard Sheet Size:</b>	5 in x 10 in (12.7 cm x 25.4 cm)
<b>Active Material Loading:</b>	80%
<b>Typical Active Material Loading:</b>	4 – 5 $\text{mg}/\text{cm}^2$
<b>Tape Thickness:</b>	12 – 25 $\mu\text{m}$

### ELECTRICAL CHARACTERISTICS

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<b>Average voltage vs. Li/Li<sup>+</sup>:</b>	3.7V
<b>Minimum capacity:</b>	150 mAh/g
<b>Nominal capacity at 0.1C:</b>	≥ 180 mAh/g

### RECOMMENDED OPERATING CONDITIONS

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<b>Charge Method:</b>	Constant current – constant voltage
<b>Maximum Charge Voltage:</b>	4.3V vs. Li/Li <sup>+</sup>
<b>Maximum Charge Current:</b>	4C
<b>Cutoff Voltage For Discharge:</b>	3.0V vs. Li/Li <sup>+</sup>
<b>Maximum Discharge Current:</b>	4C

### STORAGE & HANDLING

#### Conditions for Safe Storage

Store in a dry and well-ventilated place. Avoid moisture.

#### Precautions for Safe Handling

Appropriate personal protective equipment should be used at all times. Avoid contact with eyes and skin. Wash hands thoroughly after handling.

**Refer to MSDS for further information.**