

## Specification Sheet

## NANOMYTE® BE-30E (LMO)

### POWDER CHARACTERISTICS

|                                     |                                  |
|-------------------------------------|----------------------------------|
| <b>Chemical Name:</b>               | Lithium Manganese Oxide          |
| <b>Formula:</b>                     | LiMn <sub>2</sub> O <sub>4</sub> |
| <b>Purity:</b>                      | > 98%                            |
| <b>Average Particle Size (APS):</b> | 6 – 7 μm                         |
| <b>Specific Surface Area:</b>       | 1.6 – 2.4 m <sup>2</sup> /g      |

### ELECTRODE TAPE CHARACTERISTICS

|   |                                  |
|---|----------------------------------|
| <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> | 5 – 7 mg/cm <sup>2</sup>         |
| <b>Tape Thickness:</b>                  | 25 – 40 μm                       |

### ELECTRICAL CHARACTERISTICS

|   |             |
|---|-------------|
| <b>Average voltage vs. Li/Li<sup>+</sup>:</b> | 4.0V        |
| <b>Minimum capacity:</b>                      | 100 mAh/g   |
| <b>Nominal capacity at 0.1C:</b>              | ≥ 110 mAh/g |

### RECOMMENDED OPERATING CONDITIONS

|                                      |                                     |
|--------------------------------------|-------------------------------------|
| <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>       | 3C                                  |
| <b>Cutoff Voltage For Discharge:</b> | 3.5V vs. Li/Li <sup>+</sup>         |
| <b>Maximum Discharge Current:</b>    | 5C                                  |

### 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.**