Active Material Characteristics

<table>
<thead>
<tr>
<th>Product Name:</th>
<th>NANOMYTE® BE-35E</th>
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<tbody>
<tr>
<td>Product Description:</td>
<td>Lithium Manganese Oxide (LMO) electrode sheet</td>
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<tr>
<td>Formula:</td>
<td>LiMn₂O₄</td>
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<tr>
<td>Purity:</td>
<td>&gt; 98%</td>
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<tr>
<td>Average Particle Size (APS):</td>
<td>9 – 11 µm</td>
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<tr>
<td>Specific Surface Area:</td>
<td>0.5 m²/g</td>
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Standard Electrode Tape Characteristics

- Current Collector: Aluminum
- Current Collector Thickness: 16 µm
- Sheet Size: 5 in x 10 in (12.7 cm x 25.4 cm)
- Capacity: 1.25 mAh/cm² ± 5% (custom material loading available upon request)
- Tape Thickness: 60 – 70 µm (excluding current collector)
- Standard Tape Composition: 90% Lithium Manganese Oxide ["LMO"] (active material), 5% Poly(vinylidene fluoride) ["PVDF"] (binder), 5% Carbon Black ["Super P"] (conductive carbon)

Electrical Characteristics

- Nominal Voltage vs. Li/Li⁺: 4.0V
- Minimum Capacity: 100 mAh/g
- Nominal Capacity at 0.1C: ≥ 110 mAh/g

Recommended Operating Conditions

- Charge Method: Constant current – constant voltage
- Maximum Charge Voltage: 4.3V vs. Li/Li⁺
- Maximum Charge Current: 3C
- Cutoff Voltage For Discharge: 3.5V vs. Li/Li⁺
- Maximum Discharge Current: 5C

Available Quantities

NEI’s standard electrode sheets are ready-to-ship and available in packages of 2, 5, and 10 sheets

Storage & Handling

- Precautions for Safe Handling
  Appropriate personal protective equipment should be used at all times. Provide good ventilation or extraction. Avoid contact with eyes and skin. Wash hands thoroughly after handling.

- Conditions for Safe Storage
  Keep container tightly closed in a moisture-free and well-ventilated place.

Refer to SDS for complete information on the safe handling of this material.

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