NANOMYTE® BE-150E Specification Sheet

Active Material Characteristics

Product Name: NANOMYTE® BE-150E
Product Description: Silicon-Graphite composite electrode sheet
Formula: Si-C
Purity: > 97%
Average Particle Size (APS): < 20 µm

Standard Electrode Tape Characteristics

Current Collector: Copper
Current Collector Thickness: 10 µm
Sheet Size: 5 in x 10 in (12.7 cm x 25.4 cm)
Areal Capacity: 4 mAh/cm² ± 5%
Tape Thickness: 65 µm ± 5% (excluding current collector)

Standard Tape Composition:

<table>
<thead>
<tr>
<th>%</th>
<th>Material</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>20%</td>
<td>Silicon</td>
<td>(active material)</td>
</tr>
<tr>
<td>65%</td>
<td>Graphite</td>
<td>(active material)</td>
</tr>
<tr>
<td>9%</td>
<td>PAA-SBR</td>
<td>(water-based binder)</td>
</tr>
<tr>
<td>6%</td>
<td>Carbon</td>
<td>(conductive carbon)</td>
</tr>
</tbody>
</table>

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

Electrical Characteristics

Average Voltage vs. Li/Li⁺: 0.1 V
Minimum Delithiation Capacity at 0.05C: 700 mAh/g
Nominal Capacity at 0.05C: ≥ 750 mAh/g

Recommended Operating Conditions

Maximum Charge Current: 1C
Maximum Discharge Current: 1C

Available Quantities

NEI’s standard electrode sheets are available in packages of 2, 5, 10, and 20 sheets. Bulk quantities are also available.

Storage & Handling

Precautions for Safe 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.

Conditions for Safe Storage
Store in a dry and sealed pouch or under inert atmosphere, away from heat. Avoid moisture.

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

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.