

## NANOMYTE® SP-10 (LMNO)

### Material Characteristics

---

<b>Product Description:</b>	Lithium Manganese Nickel Oxide (LMNO) powder
<b>Formula:</b>	$\text{LiMn}_{1.5}\text{Ni}_{0.5}\text{O}_4$
<b>Average Particle Size (<math>D_{50}</math>):</b>	4 – 7 $\mu\text{m}$
<b>Specific Surface Area:</b>	1 – 1.2 $\text{m}^2/\text{g}$

### Electrical Characteristics

---

<b>Nominal Voltage vs. Li/Li<sup>+</sup>:</b>	4.7V
<b>Minimum Capacity:</b>	115 mAh/g
<b>Experimental Capacity:</b>	≥ 125 mAh/g (3.5 – 5V @ 0.1C)

### Recommended Operating Conditions

---

<b>Maximum Charge Voltage:</b>	5.0V vs. Li/Li <sup>+</sup>	<b>Cutoff Voltage for Discharge:</b>	3.5V vs. Li/Li <sup>+</sup>
<b>Maximum Charge Current:</b>	3C	<b>Maximum Discharge Current:</b>	3C

### Available Quantities

---

NEI's cathode and anode powders are available for purchase in quantities of 500 grams or more.

### 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 well-ventilated place. 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.