

Specification Sheet

NANOMYTE® SP-10E (LMNO)

POWDER CHARACTERISTICS

Chemical Name:	Lithium Manganese Nickel Oxide
Formula:	$\text{LiMn}_{1.5}\text{Ni}_{0.5}\text{O}_4$
Purity:	> 98%
Average Particle Size (APS):	4 – 5 μm
Specific Surface Area:	2 – 3 m^2/g

ELECTRODE TAPE CHARACTERISTICS

Standard Substrate:	Aluminum
Standard Sheet Size:	5 in x 10 in (12.7 cm x 25.4 cm)
Active Material Loading:	80%
Typical Active Material Loading:	6 – 8 mg/cm^2
Tape Thickness:	25 – 50 μm

ELECTRICAL CHARACTERISTICS

Average voltage vs. Li/Li⁺:	4.7V
Minimum capacity:	115 mAh/g
Nominal capacity at 0.1C:	≥ 130 mAh/g

RECOMMENDED OPERATING CONDITIONS

Charge Method:	Constant current – constant voltage
Maximum Charge Voltage:	5.0V vs. Li/Li ⁺
Maximum Charge Current:	5C
Cutoff Voltage For Discharge:	3.5V vs. Li/Li ⁺
Maximum Discharge Current:	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.