NANOMYTE® BE-10E (LTO) Specification Sheet

Active Material Characteristics

Product Name:	NANOMYTE® BE-10E
Product Description:	Lithium Titanate (LTO) electrode sheet
Formula:	$Li_4Ti_5O_{12}$
Purity:	> 98%
Average Particle Size (APS):	1.5 – 3 µm
Specific Surface Area:	5 – 9 m^2/g

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)		
Capacity:	1.25 mAh/cm^2 ± 5%		
Tape Thickness:	55 – 60 µm (excluding current collector)		
Standard Tape Composition:	90%	Lithium Titanate ["LTO"]	(active material)
	5%	Poly(vinylidene fluoride) ["PVDF"]	(binder)
	5%	Carbon Black ["Super P"]	(conductive carbon)

Electrical Characteristics

Nominal Voltage vs. Li/Li^+:	1.53V
Minimum Capacity:	150 mAh/g
Nominal Capacity at 0.1C:	≥ 170 mAh/g

Recommended Operating Conditions

Maximum Charge Voltage:	3.0V vs. Li/Li^+	**Cutoff Voltage for Discharge:**	1.0V vs. Li/Li^+
Maximum Charge Current:	5C	**Maximum Discharge Current:**	10C

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. Avoid contact with eyes and skin. Wash hands thoroughly after handling.

Conditions for Safe Storage

Store in a dry and well-ventilated place. Avoid moisture.

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

400 Apgar Drive – Unit E | Somerset, NJ 08873 | USA | (732) 868-3141 | productinfo@neicorporation.com

www.neicorporation.com