

Specification Sheet

NANOMYTE® BE-10CE (Carbon-coated LTO)

MATERIAL CHARACTERISTICS

Chemical Name:	Carbon-coated Lithium Titanium Oxide (LTO)
Formula:	$\text{Li}_4\text{Ti}_5\text{O}_{12}$ with 1-3 wt% carbon
Phase Purity:	> 98%
Average Particle Size (APS):	3 – 5 μm
Specific Surface Area:	$16 \pm 1 \text{ m}^2/\text{g}$

ELECTRODE TAPE CHARACTERISTICS

Standard Substrate:	Aluminum or Copper
Standard Sheet Size:	5 in x 10 in (12.7 cm x 25.4 cm)
Active Material Loading:	80% (higher loadings are also available upon request)
Typical Active Material Loading:	6 – 7 mg/cm^2 (higher loadings are also available upon request)
Tape Thickness:	25 – 50 μm (higher tape thicknesses are also available upon request)

ELECTRICAL CHARACTERISTICS

Nominal Voltage vs. Li/Li⁺:	1.53V
Minimum Capacity:	150 mAh/g
Nominal Capacity at 0.1C:	$\geq 170 \text{ mAh/g}$
Capacity Retention at 30C:	$\geq 150 \text{ mAh/g}$

OPERATING CONDITIONS

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

STORAGE & HANDLING

Conditions for Safe Storage

Keep container tightly closed in a dry and well-ventilated place.

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.

Refer to MSDS for further information.