

Material Characteristics

Product Name:	NANOMYTE [®] BE-45
Product Description:	Lithium Nickel Cobalt Aluminum Oxide (NCA) powder
Formula:	$\text{LiNi}_{0.8}\text{Co}_{0.15}\text{Al}_{0.05}\text{O}_2$
Purity:	> 98%
Average Particle Size (D₅₀):	11 – 13 μm
Specific Surface Area:	0.4 – 0.5 m^2/g

Electrical Characteristics

Nominal Voltage vs. Li/Li⁺:	3.7V
Minimum Capacity:	170 mAh/g
Nominal Capacity at 0.1C:	≥ 190 mAh/g

Recommended Operating Conditions

Charge Method:	Constant current – constant voltage
Maximum Charge Voltage:	4.3V vs. Li/Li ⁺
Maximum Charge Current:	4C
Cutoff Voltage For Discharge:	3.0V vs. Li/Li ⁺
Maximum Discharge Current:	4C

Available Quantities

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

Storage & Handling

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.

Conditions for Safe Storage

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

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

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