

Specification Sheet

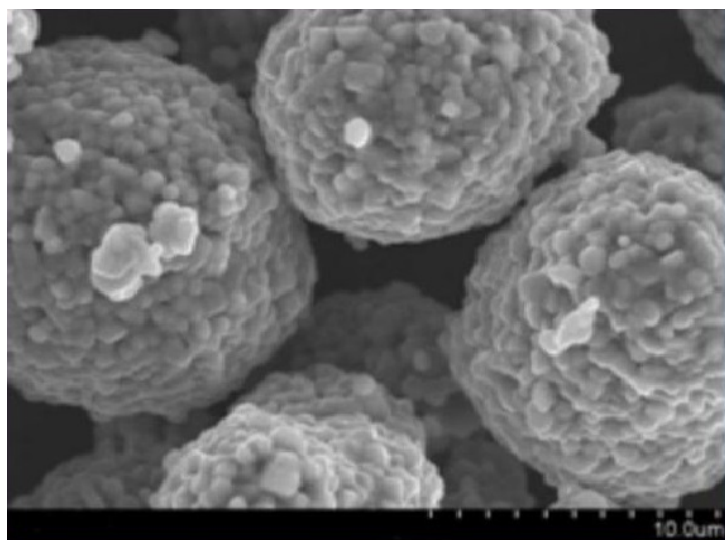
Lithium Nickel Cobalt Manganese Oxide NCM622
(Li(Ni_{0.6}Co_{0.2}Mn_{0.2})O₂, Purity: 99.9%, APS: 10microns)
Stock No: NS6130-12-001210, CAS: 346417-97-8

Product	:	Lithium Nickel Cobalt Manganese Oxide NCM622
Stock No	:	NS6130-12-001210
CAS	:	346417-97-8
Purity	:	99.9%
APS	:	10microns
Molecular Formula	:	Li(Ni _{0.6} Co _{0.2} Mn _{0.2})O ₂
Appearance	:	Black Powder
Melting Point	:	290 °C (>554 °F) – lit.
Boilling Point	:	1342 °C (2448 °F) – lit.
Cycle Life	:	1000–2000
Flash Point	:	26.1 °C (79.0 °F)
Voltages	:	3.60V, 3.70V nominal; typical operating range 3.0–4.2V/cell, or higher
Specific energy (Capacity)	:	150–220Wh/kg
Charge (C-Rate)	:	0.7–1C, charges to 4.20V, some go to 4.30V; 3h Charge Typical. Charge current above 1C shortens Battery life.
Discharge (C-Rate)	:	2.50V cut-off
Thermal Runaway	:	210 °C (410 °F) typical. High charge Promotes thermal runaway
Application	:	E-bikes, Medical devices, EVs, Industrial
Main Inspect Verifier	:	Manager QC

Note: Product Specification are subject to amendment and may change over time



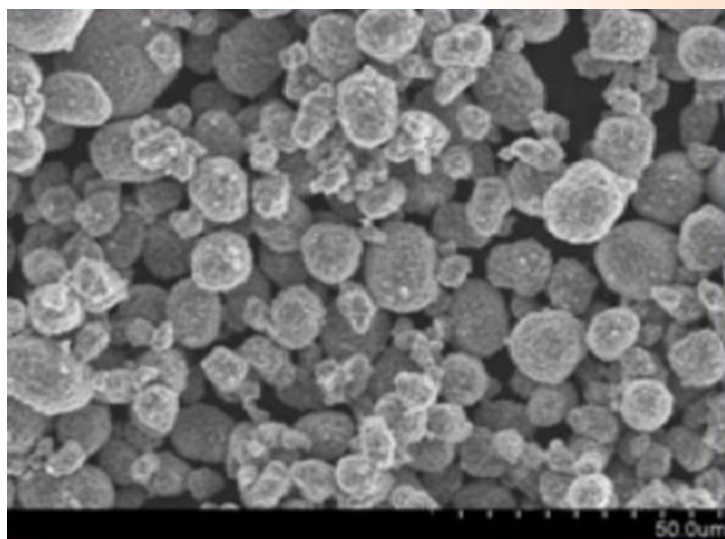
Characterization of Lithium Nickel Cobalt Manganese Oxide NCM622



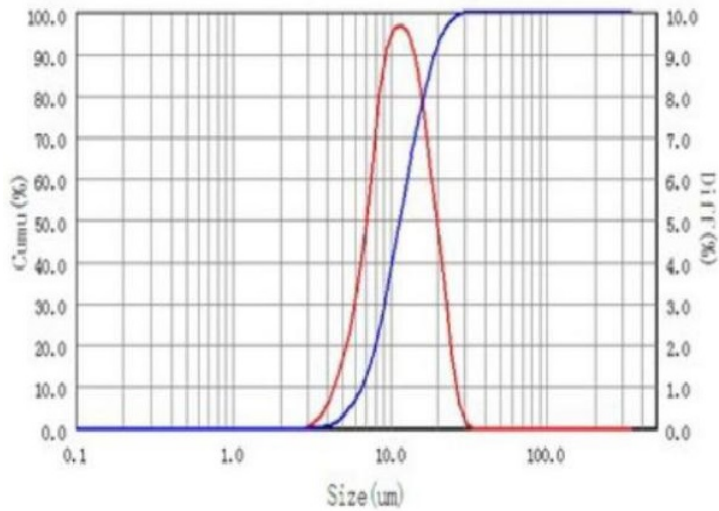
SEM - NCM622



NANOSHEL
Creating Miracles in Black



SEM - NCM622



Particles Size Analysis

