

Active Material Characteristics

NEI Part #: CBP-55

Product Description: NMC622 – Lithium Nickel Manganese Cobalt Oxide powder

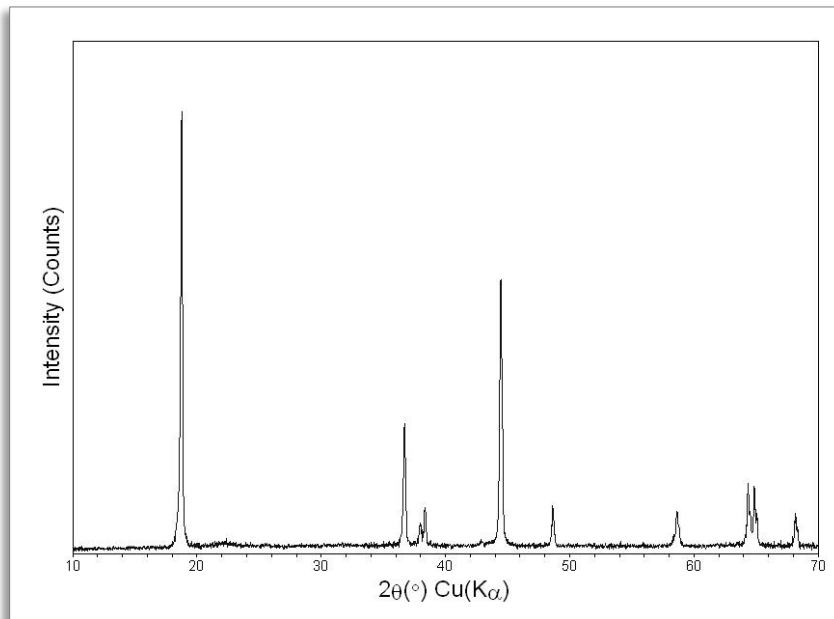
Formula: $\text{LiNi}_{0.6}\text{Mn}_{0.2}\text{Co}_{0.2}\text{O}_2$ (molar ratio of Ni:Mn:Co is approximately NMC622)

Structure: Single crystal

Material Class: Cathode powder

Specific Surface Area, BET: $\sim 0.84 \text{ m}^2/\text{g}$

Average Particle Size (D_{50}): $\sim 4 \mu\text{m}$



Electrochemical Characteristics

Typical First Charge Capacity: 195 mAh/g

Nominal voltage vs. Li/Li^+ : 3.75 V

Typical First Discharge Capacity: 170 mAh/g

Voltage Range: 2.7 – 4.3 V

Minimum First Discharge Capacity: $\geq 165 \text{ mAh/g}$ (@ 0.1C)

Available Quantities

CBP-55 is available for purchase in quantities of 250g, 500g, 1kg, and 5kg.

Precautions for Safe Storage & Handling

Appropriate personal protective equipment should be used at all times. Provide appropriate exhaust ventilation at places where dust is formed. Keep container tightly closed in a dry and well-ventilated place. Avoid moisture.

Refer to SDS for complete safety information of this material.

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