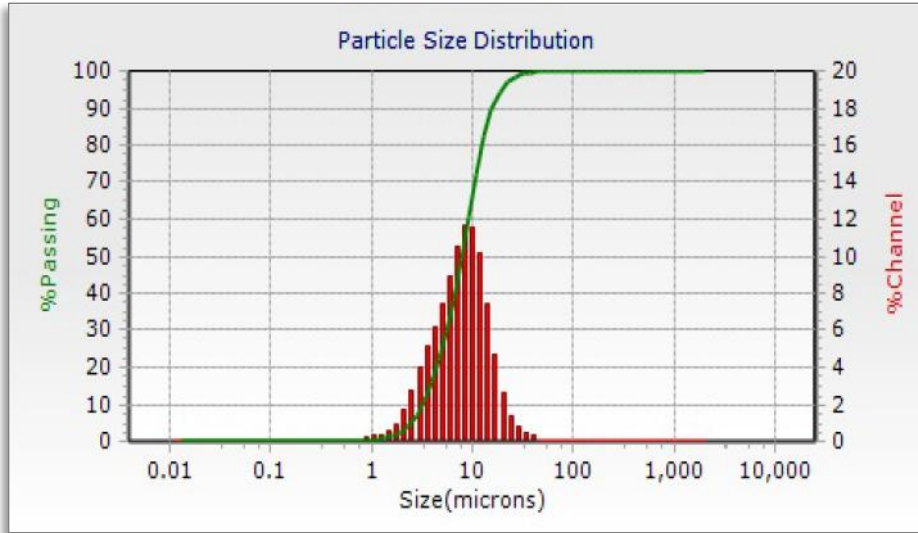
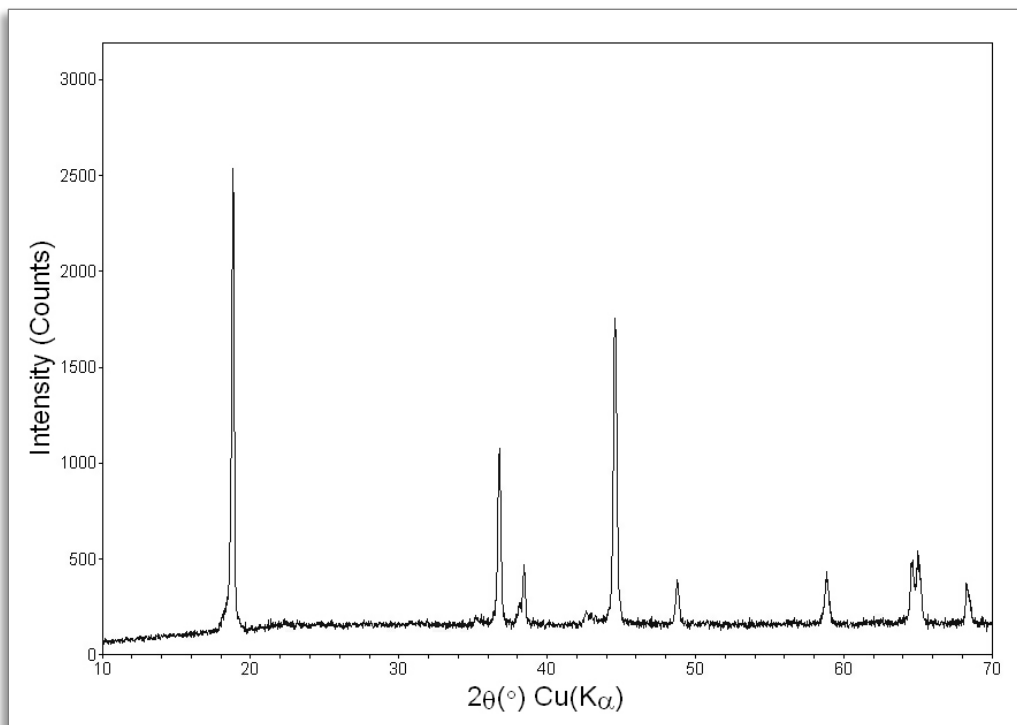


## Active Material Characteristics

**NEI Part #:** CBP-56  
**Product Description:** Lithium Nickel Manganese Cobalt Oxide ("NMC811") powder  
**Formula:**  $\text{LiNi}_{0.8}\text{Mn}_{0.1}\text{Co}_{0.1}\text{O}_2$   
**Structure:** Polycrystalline  
**Specific Surface Area:** 0.75 m<sup>2</sup>/g  
**Tap Density:** 2.5 g/cc  
**Average Particle Size (D<sub>50</sub>):** 8 μm



| Percentiles |          |
|-------------|----------|
| %Tile       | Size(um) |
| 10.00       | 3.15     |
| 20.00       | 4.36     |
| 30.00       | 5.54     |
| 40.00       | 6.72     |
| 50.00       | 7.91     |
| 60.00       | 9.17     |
| 70.00       | 10.64    |
| 80.00       | 12.53    |
| 90.00       | 15.64    |
| 95.00       | 19.01    |



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## Electrochemical Characteristics

|  |                      |
|--|----------------------|
| <b>Typical First Charge Capacity:</b>    | 210 mAh/g            |
| <b>Typical First Discharge Capacity:</b> | 200 mAh/g            |
| <b>Minimum First Discharge Capacity:</b> | ≥ 180 mAh/g (@ 0.1C) |
| <b>Voltage Range:</b>                    | 4.3 – 2.7V           |

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## Available Quantities

CBP-56 is available for purchase in quantities of 250g, 500g, 1kg, and 5kg.

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## 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.

Refer to SDS for complete safety information of this material.

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