## Active Material Characteristics

**NEI Part #:** CBP-90

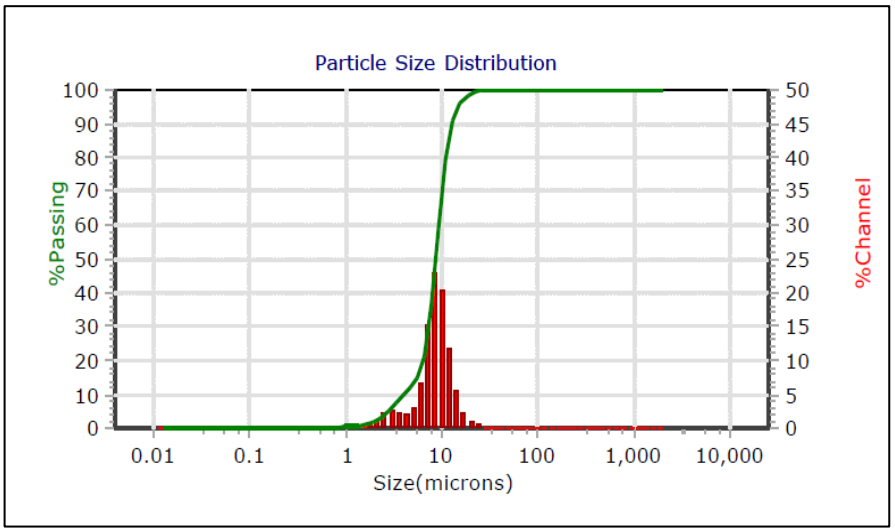
**Product Description:** Lithium Nickel Manganese Cobalt Oxide ("NMC92") powder

**Chemical Formula:** $LiNi_{0.92}Mn_{0.02}Co_{0.06}O_2$

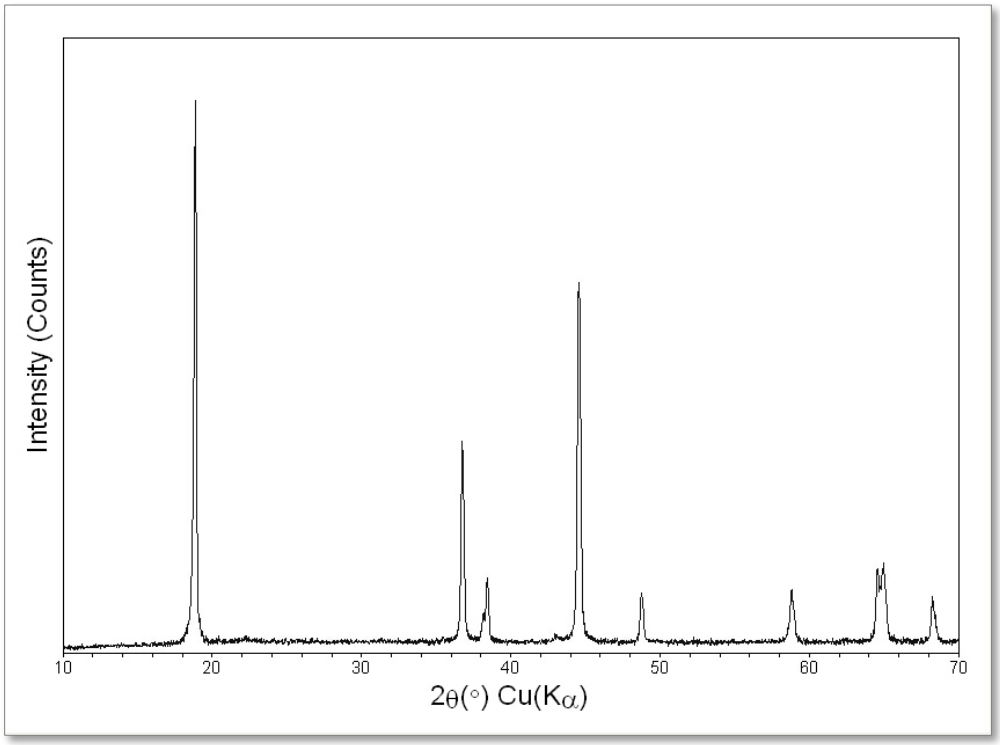
**Crystal Structure:** Polycrystalline

**Average Particle Size ($D_{50}$):** ~8.6 µm

**Specific Surface Area:** ~0.5 $m^2/g$




| Percentiles | |
|---|---|
| %Tile | Size(um) |
| 10.00 | 4.01 |
| 20.00 | 6.39 |
| 30.00 | 7.32 |
| 40.00 | 8.01 |
| 50.00 | 8.65 |
| 60.00 | 9.32 |
| 70.00 | 10.09 |
| 80.00 | 11.10 |
| 90.00 | 12.84 |
| 95.00 | 14.71 |



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## Electrochemical Characteristics

| | | | |
|---|---|---|---|
| **Typical First Charge Capacity:** | 240 - 245 mAh/g | **Nominal voltage vs. $Li/Li^+$:** | 3.75 V |
| **Typical First Discharge Capacity:** | 220 - 225 mAh/g | **Voltage Range:** | 2.7 – 4.3 V |
| **Minimum First Discharge Capacity:** | ≥ 215 mAh/g (@ 0.1C) | | |

## Available Quantities

CBP-90 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. Material is hygroscopic and may react to the atmosphere. Use and store in cool, dry, inert conditions (e.g., argon or dry air).

Refer to SDS for complete safety information of this material.





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