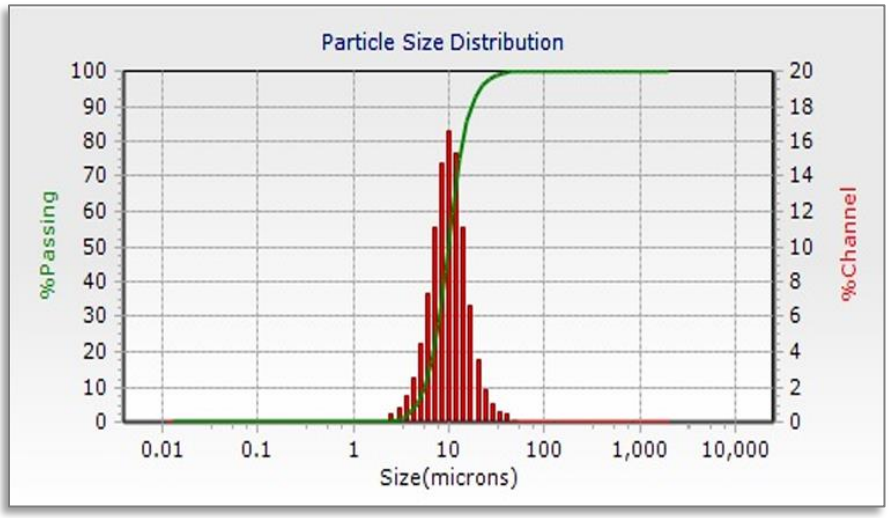
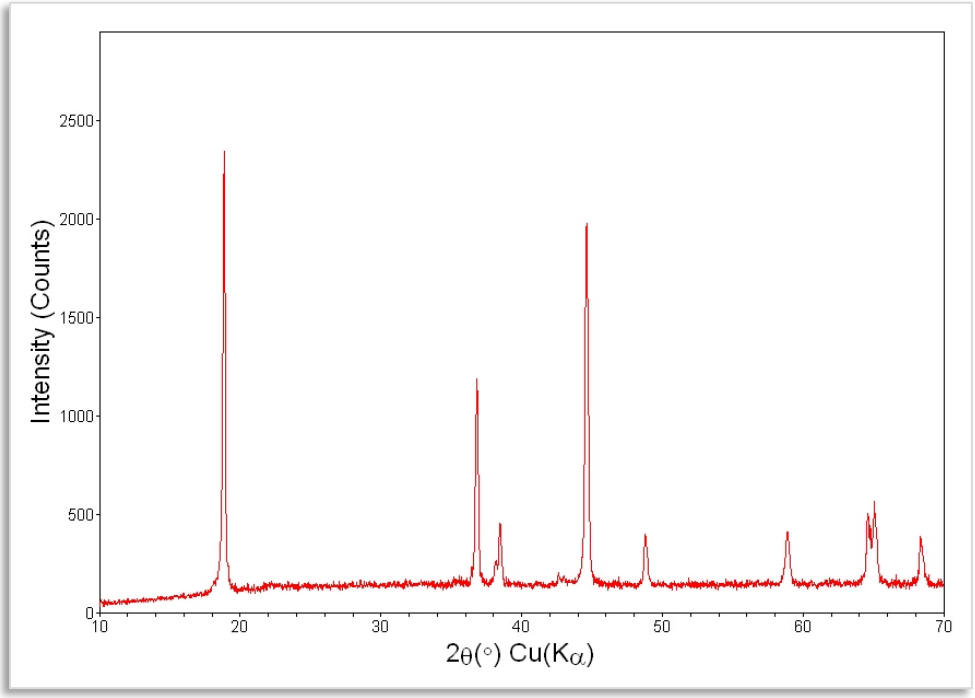
## Active Material Characteristics

| | |
|---|---|
| **NEI Part #:** | **CBP-58** |
| **Product Description:** | Lithium Nickel Manganese Cobalt Oxide (NMC85:05:10) powder |
| **Formula:** | $LiNi_{0.85}Mn_{0.05}Co_{0.10}O_2$ |
| **Crystal Structure:** | Layered |
| **Morphology:** | Polycrystalline |
| **Surface Coating:** | None (we also offer powder with a $LiNbO_3$ coating) |
| **Specific Surface Area:** | ~ 0.54 $m^2/g$ |
| **Average Particle Size ($D_{50}$):** | ~10 µm |




| Percentiles | |
|---|---|
| %Tile | Size(um) |
| 10.00 | 5.55 |
| 20.00 | 6.89 |
| 30.00 | 7.96 |
| 40.00 | 8.96 |
| 50.00 | 9.97 |
| 60.00 | 11.06 |
| 70.00 | 12.36 |
| 80.00 | 14.08 |
| 90.00 | 17.11 |
| 95.00 | 20.66 |






400 Apgar Drive – Unit E | Somerset, NJ 08873 | USA | (732) 868-3141 | productinfo@neicorporation.com

**www.neicorporation.com**

## Electrochemical Characteristics

| | | | |
|---|---|---|---|
| **Typical First Charge Capacity:** | 220 mAh/g | **Nominal voltage vs. $Li/Li^+$:** | 3.75V |
| **Typical First Discharge Capacity:** | 210 mAh/g | **Voltage Range:** | 4.3 – 2.7V |
| **Minimum First Discharge Capacity:** | ≥ 190 mAh/g (@ 0.1C) | | |

## Available Quantities

NEI's lithium-ion battery cathode powders are available in quantities of 500g, 1kg, 5kg, 10kg and more.

## 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.

***NOTE:*** *NEI Corporation believes that the information in this spec sheet is an accurate description of the typical use of the product. However, NEI disclaims any liability for incidental or consequential damages, which may result from the use of their products that are beyond its control. Employers should use this information only as a supplement to other information gathered by them and should make independent judgments of suitability of this information to ensure proper use and protect the health and safety of employees. Therefore, it is the user's responsibility to thoroughly test the product in their particular application to determine its performance, efficacy, and safety. Nothing contained herein is to be considered as permission or a recommendation to infringe any patent or any other intellectual right.*



400 Apgar Drive – Unit E | Somerset, NJ 08873 | USA | (732) 868-3141 | productinfo@neicorporation.com

**www.neicorporation.com**