# NANOMYTE® NAB-30 ($Na_{0.44}MnO_2$)

## Material Characteristics

**Product Description:** Sodium Manganese Oxide powder

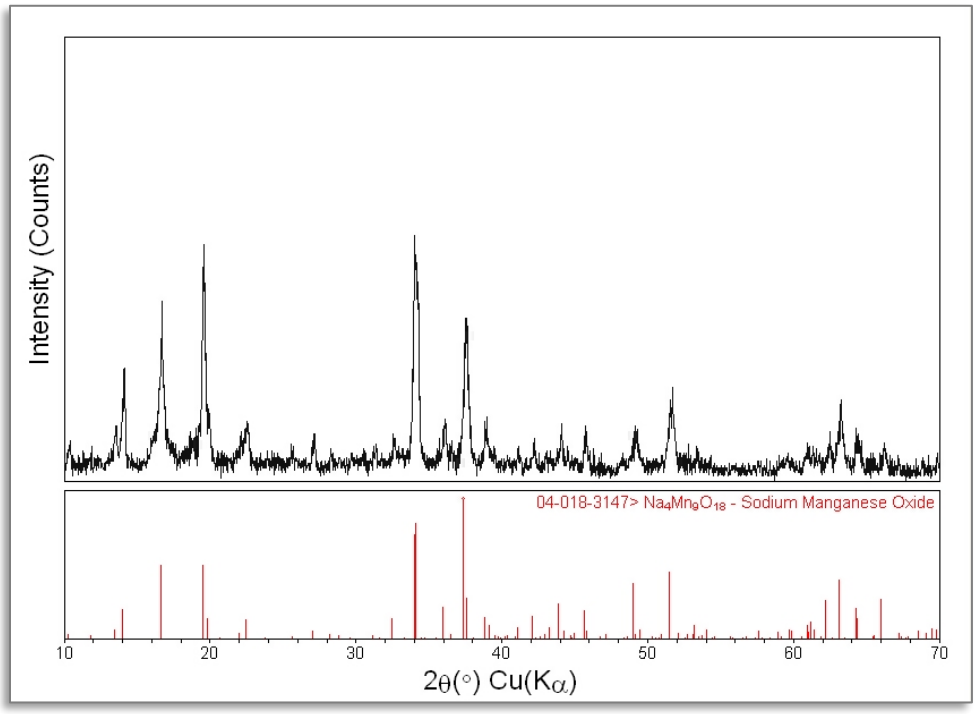
**Chemical Formula:** $Na_{0.44}MnO_2$

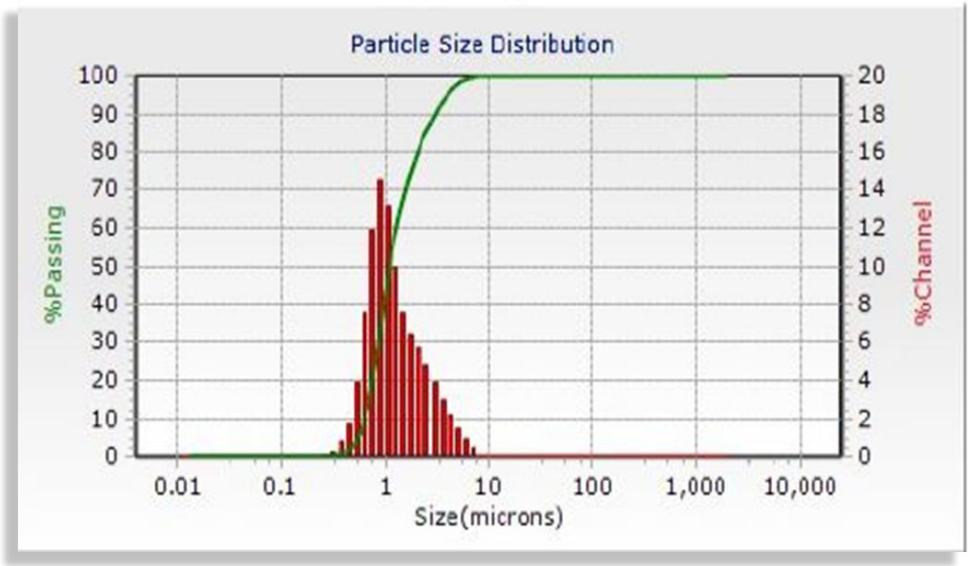
**Crystal Structure:** Orthorhombic

**Active Material Class:** Sodium-ion Intercalation Cathode

**Average Particle Size ($D_{50}$):** 1 – 2 µm

**Specific Surface Area:** 4 – 5 $m^2/g$




| Percentiles | |
|---|---|
| %Tile | Size(um) |
| 10.00 | 0.631 |
| 20.00 | 0.753 |
| 30.00 | 0.857 |
| 40.00 | 0.965 |
| 50.00 | 1.096 |
| 60.00 | 1.282 |
| 70.00 | 1.587 |
| 80.00 | 2.088 |
| 90.00 | 2.974 |
| 95.00 | 3.90 |



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## Electrochemical Characteristics

**Nominal Voltage vs. $Li/Li^+$:** 2.8 V

**Minimum Capacity:** 100 mAh/g

**Experimental Capacity:** ≥ 105 mAh/g (@ 0.1C)

## Recommended Operating Conditions

**Maximum Charge Voltage:** 3.8 V vs. $Na/Na^+$

**Maximum Charge Current:** 2C

**Cutoff Voltage for Discharge:** 2.0 V vs. $Na/Na^+$

**Maximum Discharge Current:** 2C

## Available Quantities

NANOMYTE® NAB-30 cathode powder is available in quantities of 50g, 100g, 250g, 500g, 1 kilogram or 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.





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