MATERIAL CHARACTERISTICS

Chemical Name: LATP-coated Lithium Manganese Nickel Oxide

Formula: LiMn$_{1.5}$Ni$_{0.5}$O$_4$ with 1 – 5wt% LATP

Color: Black

Purity: > 98%

Average Particle Size (APS): 5 – 8 µm

Grain Size: 50 – 70 nm

Crystal Structure: Cubic – Fd3m (227)

Crystal Density: 4.45 g/cm$^3$

Tap Density: 1.6 – 1.7 g/cm$^3$

Specific Surface Area: 1.2 – 1.3 m$^2$/g

Stable Temperature Range: Up to 700 °C

ELECTRICAL CHARACTERISTICS

Nominal voltage vs. Li/Li$^+$: 4.7V

Minimum capacity: 110 mAh/g

Nominal capacity at 0.1C: ≥ 125 mAh/g

OPERATING CONDITIONS

Recommended charge method: Constant current – constant voltage

Recommended maximum charge voltage: 5.0V vs. Li/Li$^+$

Recommended maximum charge current: 5C

Recommended cutoff voltage for discharge: 3.5V vs. Li/Li$^+$

Recommended maximum discharge current: 5C

STORAGE & HANDLING

Conditions for Safe Storage
Keep container tightly closed in a dry and well-ventilated place.

Precautions for Safe Handling
Appropriate personal protective equipment should be used at all times. Provide good ventilation or extraction. Avoid contact with eyes and skin. Wash hands thoroughly after handling.

Refer to MSDS for further information.