鐵研科技股份有限公司

TAK Technology Co., Ltd.

Takcade MTC 600

Type	Sphere shape Lithium Nickel Manganese Cobalt Oxide ($LiNi_xCo_yMn_{1-x-y}O_2$)。	
Supply Form	Dark Gray Powder form。	
Usage	In the formulation of Cathode for Lithium Batteries 。	
Specification	Appearance	Dark Gray Powder
	XRD	α-$NaFeO_2$
	Tap Density(g/c.c)	> 2.1
	SSA (m^2/g)	<0.8
	Particle Size(μm) D_{50}	8-14
	Li (%)	6~9
	Ni+Co+Mn (%)	56-62
	Fe (%)	< 0.02
	Na (%)	< 0.05
	Cu (%)	< 0.02
Other Data*	pH value	<11.5
	Water content (%)	< 0.6
	Initial Capacity (Coin-cell, 0.1C, 2.8V-4.2V) (Coin-cell, 0.1C, 2.8V-4.3V)	 > 155 mAh/g > 170 mAh/g
	*These values provide general information and are not part of product specification。	
Properties	**Takade MTC 600** 1.High Safe 2.High C-Rate	

3.High Cycle life

Application	Takcade MTC 600 has been designed for the use of cathode for Lithium ion batteries, Nickel Rich Cathode material is known to absorb moisture. The environment humidity during processing should be alerted. It is suggested to carry out a baking process at 120 degree C for six hours in a vacuumed condition prior to slurry preparation and processed slurry should be used at once and never be stored. By selecting proper high temperature electrolyte, the cell inflation can be controlled effectively.
Storage	**Takcade MTC 600,** a nickel rich material, is known to absorb moisture. Therefore, the vacuumed packaging should be stored without damage and treated with care. With proper storage condition, this product shelf time can be extended to as long as 1 year.
Safety	Hazardous level: Inflammable. May cause irritations when in contact with skin. Please refer to material safety data sheet MSDS (95-1673/1) for details of product labeling, product transportation, product storage and product manuals and safety.