

## Lithium Cobalt OXIDE

#### **Stock No.** NS6130-02-286

Currently, the most popular lithium-ion technology is the lithium-cobalt oxide (LCO) battery which has a cathode composed of LiCoO2. The main feature of the LCO battery is the high energy density translating into a long run-time for portable devices such as cell phones, tablets, laptops and cameras. The cathode material contains 60% cobalt and accounts for 50% of the weight of the cathode.

Lithium-ion cobalt batteries, lithium cobalt oxide batteries are made from lithium carbonate and cobalt. Due to their very high specific energy, these batteries are used for cell phones, laptops and electronic cameras. They have a cobalt oxide cathode and use graphite carbon as their anode material; during discharge, lithium ions move from anode to cathode, with the flow reversing when the battery is charging.

LiCoO <sub>2</sub>	<b>QUICK</b> Facts			
	~	Molecular Formula	:	LiCoO2
	~	CAS	:	12190-79-3
	<ul> <li>Image: A second s</li></ul>	Molecular Weight	:	97.87 g/mol
Arrente Ar Arrente Arrente Arr	~	Tap Density	:	0.2~0.5m²/g
	~	Moisture	:	≤0.1%
	~	рН	:	9~11
um Cobalt Oxide Powder	~	Foam	:	Powder
02, Purg, >99, 99, 478 <100nm Katori, Lithium lor Battery 1930-33 Leas Tim: -2-39Veeks 1930-42-288.	~	Appearance	:	Gray/Black
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#### **ADVANTAGES** of Lithium Cobalt Oxide:

- ✓ High energy density
- Large number of mechanical cell sizes available
- ✓ High voltage
- Active development significant investment into further improvements
- ✓ No memory effect
- Very low rate of self discharge





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### **CHARACTERISTICS**

- ✓ Long life expectancy and long operational life.
- Low self discharge rate √
- High energy density
- High cell voltage √
- Wide temperature range √
- High operating Safety ✓
- High reliability
- Resistance to corrosion



#### thium Cobalt Oxide Powde Qty UCo02, Purity: >99.9%, APS:<100nn Application: Lithium Ion Battery CAS: 12190-79-3 Lead Time -2-3Week NS6130-02-286, ATCH No Sep-2019

#### **APPLICATIONS**

- ✓ Cathode material
- Critical substance in the quest for high performance, advanced batteries
- ~ Used in portable music devices
- Use in rechargeable batteries ✓
- Used in electric cars √
- Hybrid vehicles
- Electric motorcycles and scooters ~
- ~ Electric bicycles
- Personal transporters and advanced electric wheelchairs
- Used in telecommunications

25Gms, 50Gms, 100Gms, 500Gms, 1Kg & Bulk Orders



ISO 9001:2015 CERTIFIED COMPANY

**NANOSHEL LLC** 3422 Old Capitol Suit 1305 Wilmington DE - 19808 United States

+91 9779 550077, 9779238252

NANOSHEL UK LIMITED Chapel House, Chapel St Cheshire, CW12 4AB United Kingdom

+44 (0) 74 105 488, +44 203 137 5187

+1 646 470 4911



#### **INTELLIGENT MATERIALS PVT LTD** Derabassi

Punjab (140507) INDÍA