



# Lithium Cobalt Dioxide, Cathode Material

## LiCoO<sub>2</sub>

Appearance: black powder

### Phys.-chem. data:

Surface Area	0,4 m <sup>2</sup> /g
Apparent Density	2,6 ÷ 2,7 g/cm <sup>3</sup>
Particle Size D <sub>50</sub>	6 ÷ 10 mkm

### Packing:

hermetic containers of polymer materials,  
each per 10 kg

Danger class 8

Guarantee period of storage - 6 months

### Quality data:

	%
Co	60,94
Li	7,19
Li/Co Molar Ratio (Titration)	1,003
Moisture, H <sub>2</sub> O	≤ 0,0319
Al	≤ 0,001
Ca	≤ 0,001
Cr	≤ 0,008
Cu	≤ 0,001
Fe	≤ 0,011
K	≤ 0,001
Mn	≤ 0,002
Ni	≤ 0,006
Na	≤ 0,003
Zn	≤ 0,001
pH of aqueous solution	10,7

**Electrochemical properties:** Specific discharge capacity - min 140 mA<sub>hour</sub>/g with 3 cycles in the range of potentials 4,2 – 3,0 V relatively to Lithium electrode with the current density 0,5 mA/cm<sup>3</sup>

**Application:** production of Lithium-Ion batteries