

Technical Data Sheet

LITHIUM CARBONATE (Battery Grade)
Formula: Li_2CO_3
Formula weight: 73.89
CAS NO.: 554-13-2
Physical-chemical properties: White monoclinic crystal or alkaline powder, slightly soluble in water; soluble in dilute acid, insoluble in alcohol. Density 2.11g/cm^3 , melting point 723°C (1333°F), boiling point 1230°C (2246°F).
Application: Mostly used as cathode materials in Lithium battery industry, such as LFP, NCM, LCO, LNO, LMO and LTO batteries.
Quality Standard: YS/T 582-2013

Component		LITHIUM CARBONATE (Battery Grade)	
Li_2CO_3 Content (Min%)		99.5	99.6
H_2O (%)		0.12	0.10
Impurity content (Max ppm)	Fe	1	1
	Ni	1	1
	K	18	17
	Al	1	1
	Cu	1	1
	Pb	1	1
	Mn	1	1
	Zn	1	1
	Si	5	5
	Ca	5	5
	Mg	1	1
	Na	46	44
	Cl^-	17	14
	SO_4^{2-}	660	610
	F	22	21
	D10 / D50 (μm)	1.96 / 5.53	2.03 / 5.87
	D90 / D100 (μm)	12.1 / 22.2	13.0 / 24.1
	Magnetic substances (ppb)	47	39
Packing: By woven bag with vacuum sealed double layered plastic bag, 25kg/bag. By woven bag with vacuum sealed double layered PP bag, 500kg/bag.			