

# Technical Data Sheet

LITHIUM CARBONATE (High Purity)
Formula: $\text{Li}_2\text{CO}_3$
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 $2.11\text{g/cm}^3$ , melting point $723^\circ\text{C}$ ( $1333.4^\circ\text{F}$ ), boiling point $1230^\circ\text{C}$ ( $2246^\circ\text{F}$ ).
Application: Raw material for Lithium-ion battery, raw material for various high-purity lithium salt products; material for special optical glass; material for enamel industry and medicine industry; used as catalyst / lubricant and color phosphors.
Quality Standard: YS/T 546-2008

Component		LITHIUM CARBONATE (High Purity)	
$\text{Li}_2\text{CO}_3$ Content (Min%)		99.99	99.995
Impurity Content Max (ppm)	Na	10	2
	K	10	1
	Fe	3	0.4~0.6
	Mg	5	0.5~1
	Ca	10	2~8
	Co	1	1
	Cu	1	1
	Mn	1	1
	Pb	1	1
	Ni	1	1
	Si	18	2
	Al	3	1
	Zn	3	3
	Cd	5	3
	F <sup>-</sup>	50	20~40
	Cr	1	0.1
	Ti	/	1
	Ba	/	2
	Rb	/	3
	Cs	/	1
	Sr	/	2
Packing: By double-layer plastic bag vacuum heat shrinkable sealing, 1kg/bag, 10kg/carton. By woven bag with vacuum sealed plastic bag, 25kg/bag. By paper drum with vacuum sealed plastic bags, 20kg/drum.			