

## Technical Data Sheet

LITHIUM PERCHLORATE, ANHYDROUS
Formula: LiClO <sub>4</sub>
Formula weight: 106.39
CAS NO.: 7791-03-9
Physical-chemical Properties: White crystal, density 2.428g/cm <sup>3</sup> , melting point 236°C (456.8 °F), decomposition temperature 430°C (806°F), soluble in water, ethanol, ether and acetone. Solubility: 60g/100g H <sub>2</sub> O (25°C), 150g/100g H <sub>2</sub> O (89°C).
Application: Used in high temperature chemistry to provide oxygen, and used as an oxidant for rocket fuel, used in the battery industry to produce electrolyte for lithium battery.
Quality standards: Q/TJTE 4-2007

Name		LITHIUM PERCHLORATE, ANHYDROUS		
LiClO <sub>4</sub> Content (Min%)		99.0	99.5	99.0 (Industrial grade)
Impurity Content (Max%)	( Na )	0.002	0.002	0.01
	( K )	0.002	0.001	0.005
	( Ca )	0.003	0.002	0.01
	( Fe )	0.0005	0.0003	0.001
	Heavy metal (in Pb)	0.0002	0.0002	/
	( Cl )	0.002	0.002	0.02
	Chloride and chlorate	0.01	0.01	/
	( SO <sub>4</sub> )	0.005	0.003	0.005
	( N )	0.003	0.003	/
	( H <sub>2</sub> O )	0.5	0.5	0.5
Water insolubles	0.008	0.008	/	

Packing: By double-layer plastic bag vacuum heat shrinkable sealing, 2kg/bag, 14kg/carton.  
 By woven bag lined with plastic bag, 25kg/bag.  
 By paper drum lined with plastic bags, 30kg/drum.