

LITHIUM CARBONATE



CAS Number: 554-13-2

Other Names: Dilithium carbonate; Lithonate; Lithobid; Lithane; Eskalith; Lithotabs

Formula: Li_2CO_3 or CLi_2O_3

PRODUCT INTRODUCTION

Lithium Carbonate is the carbonate salt of lithium, a soft alkali metal, with anti-manic and hematopoietic activities. This white salt is widely used in the processing of metal oxides and treatment of mood disorder. Lithium carbonate is a white solid, non-hygroscopic, poorly soluble in water, as well as most organic solvents. It is more soluble in cold water than hot water

PHYSICAL AND CHEMICAL PROPERTIES

Li_2CO_3	99.1 %
Na	0.073 %
Ca	0.0008 %
Fe	0.0005 %
SO_4^{2-}	0.28 %
Cl^-	0.0013 %
Insoluble (in HCl)	0.0084

APPLICATIONS

- Lithium carbonate is mainly used by the pharmaceutical industry in treatments against manic-depressive psychosis.
- It is also used by the chemical industry in the production of other lithium compounds, especially lithium salts as lithium chloride and lithium bromide.
- Lithium carbonate is used to prepare lithium aluminosilicate glass ceramics which have low thermal coefficients of expansion, allowing use over a wide temperature range.

- It also finds uses in specialty glasses and ceramics.
 - The addition of lithium carbonate to cement leads to quicker setting. Amounts of 1-5% are used to control setting times. In quick setting tile adhesives, lithium carbonate leads to faster adhesion of the tiles.
 - It is also added into electrolytic cells for electrolysis of aluminium due it helps to increase the efficiency of the cell and it is component of many semiconductors and chemical catalysts.
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PACKAGING OPTIONS

Drums

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