



Lithium Carbonate, Battery Grade

CAS No. 554-13-2

QS-PDS-1059 Revision: 05

Date of Last Revision: June 12, 2024

Formula: Li_2CO_3

Appearance: An odorless white, free-flowing powder

Application: A free-flowing, odorless white powder with guaranteed 99.5 wt. % purity and a relatively fine particle size. Battery Grade product is a superior purity grade for use as a precursor in making critical battery materials.

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| Product Specifications: | Li_2CO_3 , wt. % | 99.5 | min |
| | Loss @ 500° C | 0.5 | max |
| | Na, wt. % | 0.050 | max |
| | Ca, wt. % | 0.040 | max |
| | SO_4 , wt. % | 0.1 | max |
| | Cl, wt. % | 0.01 | max |
| | Acid Insolubles, wt. % | 0.02 | max |
| | Cu, wppm | 5 | max |
| | Fe, wppm | 5 | max |
| | Zn, wppm | 5 | max |
| | Al, wppm | 10 | max |
| | Ni, wppm | 6 | max |
| | H_2O^* , wt. % | 0.6 | max |

* Value (as weight percent loss) determined by drying at 500°C for 30 minutes.

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| Other Data: | Loose Bulk Density | 0.50 g/cc |
| | Tapped Bulk Density | 0.75 g/cc* |

* Particle size and density are made to customer requirements.

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| Physical Properties: | Molecular Weight | 73.89 |
| | Melting Point | 720°C |
| | Density | NONE SHOWING |

Water Solubility: Lithium carbonate solubility varies between 8-12 gm/L depending on temperature of the water. Water solubility is 1.3 wt. % @ 20°C

Toxicity/Safety Data *Information on toxicity, safety, handling, storage and disposal is contained in the Safety Data Sheet (SDS) for this product.*
Handling / Storage / Disposal:



Shipping Containers:

- 100 Kg of product in a polyethylene-lined fiber drum. Four (4) fiber drums per pallet. 400 Kg per pallet.
- 20 Kg of product in a paper bag. Forty-four (44) bags per pallet. 880 Kg per pallet.
- 25 Kg of product in a paper bag. Forty (40) bags per pallet. 1000 Kg per pallet.
- 50 lbs of product in a paper bag. Forty-four (44) bags per pallet. 2200 lbs per pallet.
- 450 Kg of product in a supersack, stacked two (2) high. 900 Kg per pallet.
- 900 Kg of product in a supersack, single stacked. 900 Kg per pallet.

Shipping Limitations: Shipments of lithium carbonate require no dangerous goods shipping labels.

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| Post, Parcel, Air, Water, Rail, Truck | Acceptable within each carrier's weight limits and packaging requirements. |
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