



Lithium Carbonate, Micronized Battery Grade

CAS No. 554-13-2

QS-PDS-1060 Revision: 05

Date of Last Revision: June 12, 2024

**Formula:**  $\text{Li}_2\text{CO}_3$

**Appearance:** An odorless white, free-flowing powder

**Application:** A free-flowing, odorless white powder with guaranteed 99.5 wt. % purity and a 5  $\mu\text{m}$  D50 particle size. Micronized Battery Grade product is a superior purity grade for use as a precursor in making critical battery materials.

<b>Product Specifications:</b>	$\text{Li}_2\text{CO}_3$ , wt. %	99.5	min
	Loss @ 500° C	0.5	max
	Na, wt. %	0.050	max
	Ca, wt. %	0.040	max
	$\text{SO}_4$ , wt. %	0.1	max
	Fe, wppm	5	max
	Zn, wppm	5	max
	Al, wppm	10	max
	Cu, wppm	5	max
	Ni, wppm	6	max
	Cl, wt. %	0.01	max
	Acid Insolubles, wt. %	0.02	max
	Malvern D100, $\mu\text{m}$	40	max
	Malvern D90, $\mu\text{m}$	13	max
	Malvern D50, $\mu\text{m}$	4-6	max
	$\text{H}_2\text{O}^*$ , wt. %	0.5	max

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

<b>Other Data:</b>	Loose Bulk Density	0.50 g/cc
	Tapped Bulk Density	0.75 g/cc*

\* Particle size and density are made to customer requirements.

<b>Physical Properties:</b>	Molecular Weight	73.89
	Melting Point	720°C

**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.

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