

Product Data Sheet

Lithium Carbonate (Li₂CO₃) - Battery Grade

Description

Description	Battery Grade Lithium Carbonate (Li ₂ CO ₃) is an ultra-low-impurity white crystalline powder, refined to the tight sodium, calcium, magnesium and iron limits required for lithium-ion battery cathode and electrolyte production. It is a critical precursor material for LFP and NCM cathode manufacturing routes, reflecting the fast-growing demand from the EV and energy-storage battery supply chain.
Applications	Lithium-ion battery cathode material production (LFP, NCM precursor route) Battery electrolyte formulation feedstock High-purity lithium chemical synthesis (e.g. lithium hydroxide conversion)
Grade	Battery Grade, Min. 99.5% Li ₂ CO ₃
CAS No.	554-13-2

Key Benefits

1. Ultra-low sodium, calcium, magnesium and iron impurities suited to cathode precursor manufacturing
2. Controlled, fine particle size distribution (D50 5-15 microns) supporting consistent downstream processing
3. Consistent, tightly specified purity supporting reliable battery-grade conversion yields
4. Established, actively traded commodity given strong demand from the EV and energy-storage battery supply chain

Chemical Analysis & Physical Data

Typical Specification

Parameter	Test Method	Unit	Specification
Li ₂ CO ₃ Content	Titration Method	wt%	Min. 99.5
Sodium (Na)	ICP/AAS Method	wt%	Max. 0.02
Calcium (Ca)	ICP/AAS Method	wt%	Max. 0.02
Magnesium (Mg)	ICP/AAS Method	wt%	Max. 0.005
Iron (Fe)	ICP/AAS Method	wt%	Max. 0.001
Sulphate (SO ₄)	Gravimetric Method	wt%	Max. 0.02
Chloride (Cl)	Titration Method	wt%	Max. 0.001
Particle Size (D50)	Laser Diffraction Method	microns	5 – 15
Appearance	Visual	–	White crystalline powder

Packaging

Packaging 25 kg Kraft Paper/HDPE Bags (with liner)
500 kg / 1,000 kg Jumbo Bags (FIBC)
Custom packaging available on request.

Storage & Handling

1. Store in a cool, dry, well-ventilated area away from moisture
2. Keep containers tightly sealed to prevent moisture ingress, carbonation drift and contamination
3. Segregate clearly from technical-grade material to avoid mix-up
4. Handle per occupational exposure requirements – see accompanying MSDS before storage/handling decisions are finalised

Quality Assurance

1. Every batch is tested against the specification above before dispatch
2. A batch-specific Certificate of Analysis (COA) accompanies each shipment, reporting Li₂CO₃ content and key trace-impurity levels against this TDS
3. COA available on request prior to shipment for buyer pre-approval
4. Third-party inspection (SGS/Intertek) can be arranged on request for regulated-market shipments

Disclaimer: The information provided in this document is based on our current knowledge and is intended as a general guide. Ochnology Solution Pvt. Ltd. reserves the right to modify specifications without prior notice. Buyers are advised to conduct their own testing for specific applications. A batch-specific Certificate of Analysis (COA) is available on request for each shipment.