

TECHNICAL DATA SHEET

Date of Issue: 2018/02/20

Lithium Carbonate, technical grade, min. 99.0 %, milled < 100 µm

CAS-No.	554-13-2
EC-No.	209-062-5
REACH No.	01-2119516034-53
Molecular Formula	Li ₂ CO ₃
Product Number	401234, 401124

APPLICATION Additive for quick-setting cements.

SPECIFICATION

	Specification	Method of Analysis
Li ₂ CO ₃ *)	min. 99.0 %	acidimetric titration
H ₂ O (200 °C)	max. 0.5 %	gravimetry
particle size	min. 100 % < 100 µm	sieve

*) Determination by titration with potentiometric endpoint indication

PHYSICAL PROPERTIES

Appearance	fine powder to granular
Colour	colourless
Melting point/ range	722 °C Method: OECD Test Guideline 102
Boiling point/boiling range	ca. 1,310 °C
Density	2.11 g/cm ³ at 20 °C

The information presented herein is believed to be accurate and reliable, but is presented without guarantee or responsibility on the part of Albemarle Corporation and its subsidiaries and affiliates. It is the responsibility of the user to comply with all applicable laws and regulations and to provide for a safe workplace. The user should consider any health or safety hazards or information contained herein only as a guide, and should take those precautions which are necessary or prudent to instruct employees and to develop work practice procedures in order to promote a safe work environment. Further, nothing contained herein shall be taken as an inducement or recommendation to manufacture or use any of the herein materials or processes in violation of existing or future patent.

Technical data sheets may change frequently. You can download the latest version from our website www.albemarle-lithium.com. Please contact us at www.albemarle-lithium.com/contact with questions.

Bulk density	ca. 430 kg/m ³ (401260 - BG <40µm) ca. 430 kg/m ³ (401303 - TG Industrial Grade) ca. 500 kg/m ³ (401223 - TG Fines) ca. 890 kg/m ³ (401203 - TG Compacted) ca. 940 kg/m ³ (401211 - TG Granules) ca. 950 kg/m ³ (401202 - TG Coarse Crystal)												
Water solubility	8.4 g/l at 20 °C Method: OECD Test Guideline 105												
Molecular weight	73.89 g/mol												
Thermal Stability	Decomposition: 600 °C												
Additional Physical Properties	Specific weight: 2.11 g/ccm Particle size: <table><thead><tr><th>Value</th><th>Typical</th><th>Guaranteed</th></tr></thead><tbody><tr><td>X(10):</td><td>typical 1.2 µm</td><td></td></tr><tr><td>X(50):</td><td>typical 7 µm</td><td></td></tr><tr><td>X(90):</td><td>typical 25 µm</td><td>100 %</td></tr></tbody></table>	Value	Typical	Guaranteed	X(10):	typical 1.2 µm		X(50):	typical 7 µm		X(90):	typical 25 µm	100 %
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X(10):	typical 1.2 µm												
X(50):	typical 7 µm												
X(90):	typical 25 µm	100 %											

HANDLING & STORAGE

Handling No special precautions necessary.

TRANSPORT & PACKAGING

ADR
Not regulated as a dangerous good

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Hazard pictograms



Signal word	Warning
H&P Phrases	See Safety Data Sheet
Labelling	The labelling is according to EU-GHS classification ((EG) 1272/2008) and may vary in other countries. Please refer to the respective Safety Data Sheet for your country.

Packaging

25 kg-bags on pallets of 1,000 kg, 100 kg fiber drums with polyethylene lining or 500 kg big bags.

OTHER INFORMATION

Further Related Documents	Safety Data Sheet
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