

TECHNICAL DATA SHEET

Date of Issue: 2018/02/15

Lithium Carbonate, technical grade, min. 99.0 %, milled < 40 µm

CAS-No.	554-13-2
EC-No.	209-062-5
REACH No.	01-2119516034-53
Molecular Formula	Li ₂ CO ₃
Product Number	401125

APPLICATION Additive for quick-setting cements. Raw material for the manufacture of cathodes in Lithium ion batteries.

SPECIFICATION

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

*) Determination by titration with potentiometric endpoint indication

PHYSICAL PROPERTIES

Appearance	fine powder to granular
Color	colorless
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

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Bulk density ca. 430 kg/m³ (401260 - BG <40µm)
ca. 430 kg/m³ (401303 - TG Industrial Grade)
ca. 500 kg/m³ (401223 - TG Fines)
ca. 890 kg/m³ (401203 - TG Compacted)
ca. 940 kg/m³ (401211 - TG Granules)
ca. 950 kg/m³ (401202 - TG Coarse Crystal)

Water solubility 8.4 g/L at 20 °C Method: OECD Test Guideline 105

Molecular weight 73.89 g/mol

Grain Size	Value	typical	Specification
	X(10)	1 µm	
	X(50)	4 µm	
	X(90)	10 µm	
	Particle size < 40 µm		100 %

Additional Physical Properties Specific weight: 2.11 g/ccm

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, 50 kg fiber drums with polyethylene lining or 500 kg big bags.

OTHER INFORMATION

Further Related Documents	Safety Data Sheet
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