## **TECHNICAL DATA SHEET**

Date of Issue: 2016/12/15

# Lithium Metal

CAS-No. 7439-93-2

EC-No. 231-102-5

REACH No. 01-2119966143-38

Molecular Formula Li

Product Number 401513, 401503, 401505, 401510, 401511,

401514, 401515, 401518

APPLICATION Starting material for organic lithium compounds. Reduction and deoxidizing agent.

#### **SPECIFICATION**

Li	min. 99.0 %	
Na	max. 0.9 %	
K	max. 0.05 %	
Ca	typ. 0.04 %	
Fe	typ. 0.01 %	

## PHYSICAL PROPERTIES

Appearance solid

Color metallic

Melting point/ range 180.5 °C at 1,013 hPa

Viscosity, dynamic 0.57 mPa\*s at 200 °C

Boiling point/boiling

range

ca. 1,342 °C at 1,013 hPa

Density 0.534 g/cm3 at 20 °C

Bulk density ca. 300 kg/m3

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.



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Water solubility (Not applicable)

Molecular weight 6.94 g/mol

Additional Physical

Properties

401513 Lithium trapezoid ingot of 1,000 g,

258/284 x 65/90 x 90 mm

401510 Lithium trapezoid ingot of 850 g,

258/283 x 65/89 x 83 mm

401515 Lithium trapezoid ingot of 430 g,

126/148 x 65/85 x 81 mm

401503 Lithium trapezoid ingot of 180 g,

126/137 x 65/76 x 65 mm

401511 Blocks of 100 g,

165 x 34 x 34 mm

401505 Rods, 10 and 20 mm Ø,

length 250 mm

401514 Granulate, about Ø 2.5 mm

401518 Pieces

about Ø 10 mm, length 5 mm

#### HANDLING & STORAGE

Handling

Lithium can be stored min. six months under exclusion of air and humidity (oil cover or argon atmosphere) in approved packing.

## TRANSPORT & PACKAGING

#### UN number 1415

ADR	Class: 4.3	PG: I	Label: 4.3
RID	Class: 4.3	PG: I	Label: 4.3
IMDG	Class: 4.3	PG: I	Label: 4.3
IATA_C	Class: 4.3	PG: I	Packing instruction (cargo aircraft): 487
IATA_P	Class: 4.3	PG: I	

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#### Hazard pictograms





Signal Word Danger

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

Lithium trapezoid ingots are typically packed in 200 I steel drum with PE or Plastic-Aluminium compound liners. The ingots are covered with a thin oil film and packed under Argon.

100 g blocks rods and granulate are typically packed in PE or Plastic-Aluminium compound bags of 100 g, 200 g, 500 g, 1,000 g, 2,000 g and 5,000 g. These bags are packed in 200 l steel drum with PE Plastic-Aluminium compound liners.

Special packing available upon request. For example:

Customized sizes which fit perfect to your batch size, packing in tin cans, different types of drums in the range 15 - 200 l.

## OTHER INFORMATION

Further Related

Safety Data Sheet

Documents

Our brochure(s)

Lithium Metal



