

TECHNICAL DATA SHEET

Date of Issue: 2016/11/17

Spodumene Concentrate, SC 5.0

CAS-No. 1302-37-0

Molecular Formula $\text{AlLi}(\text{SiO}_3)_2$

Product Number 402204

APPLICATION

Spodumene is used in glasses, glass-ceramics, porcelain enamels, whitewares, and glazes due to the powerful fluxing properties of lithia. It possesses a very low thermal expansion and reduces the viscosity of the glass mass. It contributes to brilliancy and strength of the glass. Spodumene is also used in metallurgical applications, i.a. in continuous casting powders, anti-veining agents, and as additive in foundry feeder production.

FURTHER INGREDIENTS

Feldspar

CAS-No. 68476-25-5

EC-No. 270-666-7

Quartz (SiO_2) - Alveolar dust fraction

CAS-No. 14808-60-7

EC-No. 238-878-4

SPECIFICATION

	Specification	Method of Analysis
Li ₂ O	min. 5.0 %	AAS
Fe ₂ O ₃	max. 0.13 %	XRF

PHYSICAL PROPERTIES

Appearance granular

Color white to beige

Melting point/ range from 1,375 °C

Density 3.1 g/cm³

Bulk density 1,400 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.

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.

Water solubility (immiscible)

Grain Size	Grain Size	Guaranteed
	< 850 µm	100 %
	> 106 µm	min. 95 %

Additional Physical Properties Spodumene is a mineral with the general formula [LiAl(Si₂O₆)]

Major Composition	Weight %
Spodumene	~ 63 %
Quartz	~ 31 %
Feldspar	~ 5 %

HANDLING & STORAGE

Handling Observe official safety regulations

Storage Store in dry conditions as material is produced and consumed as a dried product. Do not store together with volatile chemicals as they may be absorbed into the product.

TRANSPORT & PACKAGING

ADR

Not regulated as a dangerous good

Packaging

- bulk in silo trucks / tipping trucks / trailers
 - big bags (1000 kg, 1200 kg, 2000 kg) on pallet
-

OTHER INFORMATION

Further Related Documents Safety Data Sheet

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.