

# TECHNICAL DATA SHEET

Date of Issue: 2016/11/17

## Spodumene Concentrate, SC 6.5

CAS-No. 1302-37-0

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

Product Number 402203

### 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 ( $\text{SiO}_2$ ) - Alveolar dust fraction

CAS-No. 14808-60-7

EC-No. 238-878-4

### SPECIFICATION

	Specification	Method of Analysis
Li <sub>2</sub> O	min. 6.5 %	AAS
Fe <sub>2</sub> O <sub>3</sub>	max. 0.25 %	XRF

### PHYSICAL PROPERTIES

Appearance granular

Color white to beige

Melting point/ range from 1,375 °C

Density 3.1 g/cm<sup>3</sup>

Bulk density ca. 1,500 kg/m<sup>3</sup>

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Water solubility (immiscible)

Grain Size	Grain Size	Guaranteed
	< 1000 µm	min. 98 %

Additional Physical Properties Spodumene is a mineral with the general formula [LiAl(Si<sub>2</sub>O<sub>6</sub>)]

Major Composition	Weight %
Spodumene	~ 81 %
Quartz	~ 15 %
Feldspar	~ 3 %

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## 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.

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## TRANSPORT & PACKAGING

### ADR

Not regulated as a dangerous good

### Packaging

big bags (1000 kg) on pallet

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## OTHER INFORMATION

Further Related Documents Safety Data Sheet

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