

Technical Data Sheet

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Spodumene

Product Identification

Product name : Spodumene
Chemical Formula : $\text{LiAlSi}_2\text{O}_6$
CAS No. : 1302-37-0

Physical and Chemical Properties

Property	Value / Description
Purity	Li_2O 7.2% min / Al_2O_3 25% min / SiO_2 62.5% min
Physical State	Solid
Color	White
Specific gravity	3.1 g/cm ³
Melting Point	1375 °C
Solubility in Water	Insoluble
Stability	Stable mineral; undergoes phase transformations at elevated temperatures (900 – 1050 °C)
Reactivity	No significant chemical reactivity under normal conditions

Applications

Lithium source for battery materials, ceramic glazes, glass manufacturing, chemical feedstock, refractory materials, gemstone (kunzite, hiddenite), optical materials

Packing

1000kg net in sealed containers

Shipping Regulations

Not subject to transport regulations

Safety Information

Harmful if swallowed.