

# Technical information

## LITHIUM NIOBATE

Synonyms:	Lithium niobium oxide; LN		
CAS number:	12031-63-9	EINECS number:	234-755-4
Formula:	LiNbO <sub>3</sub>	Molecular Weight:	147.8
HTS number:	28419090	TSCA	

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### TENTATIVE SPECIFICATION

LiNbO <sub>3</sub>	≥ 99.98 %
Ta	< 0.005 %
Fe	< 0.005 %
Al	< 0.005 %
Si	< 0.005 %

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### PROPERTIES

Appearance	glass-like chips
Odor	odorless
Density	4.64
Hardness (Mohs)	5
Melting point	~1270 <sup>0</sup> C
Curie point	1145 <sup>0</sup> C
Solubility	insoluble in water and organic solvents

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### PACKING

10 kg net fiber drums  
25 kg net plastic coated woven paper composite bags

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### HEALTH & SAFETY, SHIPPING

Classification Not classified

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### APPLICATIONS

- in piezo-electric devices
- in electro-acoustic/electro-optical components such as SAW filters/resonators, optical modulators, frequency doublers, wave filters, optical switches
- in non-linear optics

March 2010; Lithium niobate 02607  
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