

Product Information

Dynasylan® SILBOND® LBEG

High-purity, low-boron tetraethyl orthosilicate

PRODUCT DESCRIPTION

Dynasylan® SILBOND® LBEG (low-boron electronic grade) is a clear, very high-purity (99.86%), low-boron ethyl silicate product targeted for use in the electronics industry.

Typical Properties

Property	Unit	Value
Appearance		Clear Liquid
Boiling Point, min.	°C	167
Chemical Name		Tetraethylsilicate
Density (20 °C)	g/cm ³	0.932-0.936
Flash Point, min.	°C	41
Product Purity, min. wt. min.	%	99.86
Sum Formula		C ₈ H ₂₀ O ₄ Si
Viscosity (20 °C)	mPa·s	0.75

The data represents typical values (no product specification)

TYPICAL APPLICATIONS

Dynasylan® SILBOND® LBEG is tetraethyl orthosilicate (TEOS), and is an excellent source of silica for sol-gel processes, spin-on glass, electronics, and other applications that require high purity. This can replace Dynasylan® SILBOND® EG in all applications, especially where low boron levels are required.

Product Composition

Product Composition	Unit	Value
Boron (B) Content, max.	ppb	10

The data represents typical values (no product specification)

Product Composition

Product Composition	Unit	Value
Silicon Dioxide (SiO ₂) Content	wt%	26-30
Water Content, max.	ppm	100

The data represents typical values (no product specification)

BENEFITS & ADVANTAGES

Dynasylan® SILBOND® LBEG (low-boron electronic grade) is a clear, very high-purity (99.86%), low-boron ethyl silicate product targeted for use in the electronics industry.

HANDLING & PROCESSING

Before considering the use of Dynasylan® products please read its Safety Data Sheet (SDS) thoroughly for safety and toxicological data as well as for information on proper transportation, storage and use.

The Safety Data Sheet is available on our website <https://www.evonik.com/en/company/businesslines/se.html> or upon request from your local representative, customer service or from Evonik Operations GmbH, Product Safety Department, E-MAIL sds-hu@evonik.com.

PACKAGING

Dynasylan® SILBOND® LBEG product could be available in pails, drums, totes and tanker quantities.

Please ask for further details.

SHELF LIFE

In the unopened container Dynasylan® SILBOND® LBEG has a shelf life of min. 12 months from date of manufacture.

Registration Listings

Registry	Status
Australia (AIC)	Yes

Registration Listings

Registry	Status
Canada (DSL)	Yes
China (IECSC)	Yes
EU (REACH)	Yes
Japan (ENCS)	Yes
South Korea (KECL)	Yes

Registration Listings

Registry	Status
New Zealand (NZIoC)	Yes
Philippines (PICCS)	Yes
Taiwan (TCSI)	Yes
USA (TSCA)	Yes

Disclaimer

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