

Product Information

Dynasylan® SILBOND® UHPT

ultra high-purity tetraethyl orthosilicate

PRODUCT DESCRIPTION

Dynasylan® SILBOND® UHPT (ultra high-purity TEOS) is a clear, very high-purity (99.990%), low-boron ethyl silicate product targeted for use in the semiconductor industry.

Typical Properties

Property	Unit	Value
Appearance		Clear Liquid
Boiling Point, min.	°C	167
Chemical Name		Tetraethyl orthosilicate
Density (20 °C)	g/cm ³	0.940
Flash Point, min.	°C	49
Product Purity, min. wt% min.	%	99.990
Viscosity (20 °C)	mPa·s	0.75

The data represents typical values (no product specification)

TYPICAL APPLICATIONS

Dynasylan® SILBOND® UHPT is tetraethyl orthosilicate (TEOS), and is an excellent source of silica for sol-gel processes, spin-on glass, chemical vapor deposition for semiconductors, and other applications requiring the highest purity levels.

Product Composition

Product Composition	Unit	Value
Boron (B) Content, max.	ppb	10
Silicon Dioxide (SiO₂) Content	wt%	26-30
Water Content, max.	ppm	10

The data represents typical values (no product specification)

BENEFITS & ADVANTAGES

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Typical Element Analysis in ppt (not specifications)

ELEMENT		LIMIT
Aluminium	(Al)	< 100
Arsenic	(As)	< 100
Barium	(Ba)	< 100
Beryllium	(Be)	< 100
Bismuth	(Bi)	< 100
Calcium	(Ca)	< 100
Cadmium	(Cd)	< 100
Chromium	(Cr)	< 100
Cobalt	(Co)	< 100
Copper	(Cu)	< 100
Gallium	(Ga)	< 100
Gold	(Au)	< 100
Iron	(Fe)	< 100
Lead	(Pb)	< 100
Lithium	(Li)	< 100
Magnesium	(Mg)	< 100
Manganese	(Mn)	< 100
Mercury	(Hg)	< 100
Nickel	(Ni)	< 100
Potassium	(K)	< 100
Silver	(Ag)	< 100
Sodium	(Na)	< 100
Strontium	(Sr)	< 100
Thorium	(Th)	< 100
Tin	(Sn)	< 100
Titanium	(Ti)	< 100
Uranium	(U)	< 100
Zinc	(Zn)	< 100

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® UHPT could be available in pails, drums, totes and tanker quantities.

Please ask for further details.

SHELF LIFE

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

Registration Listings

Registry	Status
Australia (AIIC)	Yes
Canada (DSL)	Yes

Registration Listings

Registry	Status
China (IECSC)	Yes
EU (REACH)	Yes
Japan (ENCS)	Yes
South Korea (KECL)	Yes
New Zealand (NZIoC)	Yes
Philippines (PICCS)	Yes
Taiwan (TCSI)	Yes
USA (TSCA)	Yes

Disclaimer

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