

Product Information

Dynasylan® SILBOND® UHPT

ultra high-purity tetraethyl orthosilicate

CAS NUMBER

confidential

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.

Property	Unit	Value
Appearance		Clear Liquid
Boiling Point, min.	°C	167
Density	g/cm³	0.940
(20 °C)		
Flash Point, min.	°C	49
Product Purity, min.	%	99.990
wt% min.		
/iscosity	mPa·s	0.75
(20 °C)		

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 (SiO ₂) Content	wt%	26-30
Water Content, max.	ppm	10

BENEFITS & ADVANTAGES

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LEMENT		LIMIT
Aluminium	(AI)	< 100
Arsenic	(As)	< 100
arium	(Ba)	< 100
Beryllium	(Be)	< 100
ismuth	(Bi)	< 100
alcium	(Ca)	< 100
admium	(Cd)	< 100
hromium	(Cr)	< 100
obalt	(Co)	< 100
Copper	(Cu)	< 100
Gallium	(Gu)	< 100
iold	(Au)	< 100
ron	(Fe)	< 100
ead	(Pb)	< 100
ithium	(Li)	< 100
Magnesium	(Mg)	< 100
langanese	(Mn)	< 100
lercury	(Hg)	< 100
lickel	(Ni)	< 100
otassium	(K)	< 100
ilver	(Ag)	< 100
odium	(Na)	< 100
trontium	(Sr)	< 100
horium	(Th)	< 100
in	(Sn)	< 100
itanium	(Ti)	< 100
Iranium	(U)	< 100
inc	(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://silanes.evonik.com/en 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
China (IECSC)	Yes
EU (REACH)	Yes
Japan (ENCS)	Yes
South Korea (KECL)	Yes
New Zealand (NZIoC)	Yes
Philippines (PICCS)	Yes
Taiwan (TCSI)	Yes
United States of America (TSCA)	Yes

Disclaime

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