

Dynasytan® SILBOND® LBEG

High-purity, low-boron tetraethyl orthosilicate

Technical Data

Properties and test methods	Unit	Value
Physical Form	-	Clear Liquid
Density (20 °C)	g/cm ³	0.932-0.936
Viscosity (20 °C)	mPa·s / cSt	0.75
Boiling Point	°C / °F	167 / 333
Flash Point	°C / °F	41 / 105
Silica content (as SiO ₂)	% wt	~ 28
Purity	% wt min	99.86
Water	ppm max	100
Boron	ppb max	10.0

Dynasytan® 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. Dynasytan® 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.

Safety and handling

Before considering the use of Dynasytan® SILBOND® 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 after registration on our website www.dynasytan.com or upon request from your local representative, customer service or from Evonik Resource Efficiency GmbH, Product Safety Department, E-MAIL sds-hu@evonik.com.

Packaging, storage and shelf life

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

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

Please ask us for further details.

Properties and 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.

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Europe/Middle-East/Africa/RoW

Evonik Resource Efficiency GmbH

Business Line Silanes
Rodenbacher Chaussee 4
63457 Hanau-Wolfgang
Germany
PHONE +49 6181 59 13636
FAX +49 6181 59 713915
dynasylan@evonik.com
www.dynasylan.com

Asia / Pacific

Evonik (SEA) Pte. Ltd.

Business Line Silanes
3 Internatioanl Business Park
#07-18, Nordic European Centre
Singapore 609927
PHONE +65 6809 6576
FAX +65 6809 6699
dynasylan@evonik.com
www.dynasylan.com

Asia / Pacific

Evonik Japan Co. Ltd

Business Line Silanes
12th Floor Monolith Building
2-3-1, Nishi-Shinjuku-ku
Tokyo 163-0912
Japan
PHONE +81 353 23 7446
FAX +81 353 23 7397
dynasylan@evonik.com
www.dynasylan.com

North America

Evonik Corporation

Business Line Silanes
299 Jefferson Road
Parsippany, NJ 07054-0677
USA
PHONE (TOLL FREE) +1 800 237 67 45
PHONE +1 973 929 8513
FAX +1 973 929 8503
dynasylan@evonik.com
www.dynasylan.com

Asia / Pacific

Evonik Specialty Chemicals (Shanghai) Co. Ltd.

Business Line Silanes
55, Chungdong Road
Xinzhuang Industry Park
Shanghai 201108
P.R. China
PHONE +86 21 61191-399
FAX +86 21 61191-648
dynasylan@evonik.com
www.dynasylan.com

Asia / Pacific

Evonik India Pvt. Ltd.

Business Line Silanes
Krislon House
Saki Vihar Road, Anderi (E)
Mumbai - 400 072
India
PHONE +91 226 7238 809
FAX +91 226 7238 811
dynasylan@evonik.com
www.dynasylan.com

North America

Silbond Corporation

9901 Sand Creek Highway
Weston, MI 49289
USA
PHONE +1 517 436 9316
FAX +1 517 436 3148
dynasylan@evonik.com
www.dynasylan.com

Asia / Pacific

Evonik Korea Ltd.

Business Line Silanes
94, Galsan 1-dong
Bupyeong-gu
Incheon, 403-081
Korea
PHONE +82 2320 4773
FAX +82 2783 2520
dynasylan@evonik.com
www.dynasylan.com

Latin America

Evonik Brasil Ltda.

Business Line Silanes
Alameda Campinas, 579
01404-000 São Paulo-SP
Brazil
PHONE +55 11 3146 4123
FAX +55 11 3146 4148
dynasylan@evonik.com
www.dynasylan.com

Asia / Pacific

Evonik Taiwan Ltd.

Business Line Silanes
Artist Construction Bldg.
9F, No. 133
Min Sheng East Road, Sec 3
Taipei, 105 Taiwan, R.O.C.
Taiwan 10596
PHONE +886 227 17 1242
FAX +886 227 17 2106
dynasylan@evonik.com
www.dynasylan.com