

Dynasylan® OCTMO

Octyltrimethoxysilane

Technical data

Properties and test methods	Value	Unit	Method
Boiling point (1013 hPa)	246/ 475	°C/ °F	DIN 51751
Density (20 °C/ 68 °F)	0.91	g/cm ³	DIN 51757
Viscosity, dynamic (20 °C/ 68 °F)	2/ 2	mPa·s / cSt	DIN 53015
Flash point	102/ 216	°C/ °F	DIN 51758

Registrations

Dynasylan® OCTMO

EINECS/ELINCS (EU):	Yes
AICS (Australia):	Yes
DSL/NDSL (Canada):	*
PICCS (Philippines):	Yes
TSCA (USA):	Yes
IECS (P.R. China):	Yes
ENCS (Japan):	Yes
ECL (South Korea):	No
* = information on request	

Dynasylan® OCTMO is a monomeric medium-chain alkylfunctional silane.

Dynasylan® OCTMO is a clear colourless liquid and soluble in common non-polar organic solvents (e.g. petroleum ether, toluene). However its low volatility and viscosity make **Dynasylan® OCTMO** an easy-to-handle additive. During the hydrolysis reaction between water and **Dynasylan® OCTMO** a certain amount of methanol (VOC) is released.

Safety and handling

Before considering the use of **Dynasylan®** products please read its Material Safety Data sheet (MSDS) thoroughly for safety and toxicological data as well as for information on proper transportation, storage and use. The Material Safety Data Sheet is available after registration on our website www.dynasylan.com or upon request from your local representative, customer service or from Evonik Industries AG, Product Safety Department, E-MAIL sds-im@evonik.com.

Packaging and storage

Dynasylan® OCTMO are available in 25 kg and 190 kg drums. In the unopened container **Dynasylan® OCTMO** silane has a shelf life of at least one year.

Properties and application

Dynasylan[®] OCTMO silane can be used as a surface modifier to generate hydrophobicity on inorganic fillers and pigments. The medium-chain alkyl functionality results in unique compound properties when **Dynasylan**[®] OCTMO treated minerals or pigments are incorporated into polymers, e.g. polyethylene or polypropylene. Loading levels of 0.5 to 1.5wt.% **Dynasylan**[®] OCTMO based on the weight of filler or pigment are typically recommended.

Reactivity

Key Benefits:

Because of its unique structure, **Dynasylan**[®] OCTMO exhibits hydrophobicity on substrates and forms weather- and moisture-resistant bonds to substrates as well. Use of **Dynasylan**[®] OCTMO results in: compatibility improvements between pigments or inorganic fillers and organic polymers or solvents, allowing easy pigment (e.g. iron oxides or titanium dioxide) or mineral filler (e.g. ATH, MDH) dispersion.

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Europe/Middle-East/Africa/RoW

Evonik Industries AG

Inorganic Materials
Rodenbacher Chaussee 4
63457 Hanau-Wolfgang
Germany
PHONE +49 6181 59 13636
FAX +49 6181 59 13737
dynasytan@evonik.com
www.dynasytan.com

Asia / Pacific

Evonik Degussa (SEA) Pte. Ltd.

Inorganic Materials
3 Internatioanl Business Park
#07-18, Nordic European Centre
Singapore 609927
PHONE +65 6809 6830
FAX +65 6809 6630
dynasytan@evonik.com
www.dynasytan.com

Asia / Pacific

Evonik Taiwan Ltd.

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

North America

Evonik Corporation

Inorganic Materials
P.O. Box 677
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
dynasytan@evonik.com
www.dynasytan.com

Asia / Pacific

Evonik Degussa (Shanghai) Co. Ltd.

Inorganic Materials
55, Chungdong Road
Shanghai 201108
P.R. China
PHONE +86 21 6119 1053
FAX +86 21 6119 1075
dynasytan@evonik.com
www.dynasytan.com

Asia / Pacific

Evonik Japan Co. Ltd

Inorganic Materials
12th Floor Monolith Building
2-3-1, Nishi-Shinjuku-ku
Tokyo 163-0912
Japan
PHONE +81 353 23 7300
FAX +81 353 23 7399
dynasytan@evonik.com
www.dynasytan.com

Latin America

Evonik Brasil Ltda.

Inorganic Materials
Alameda Campinas, 579
01404-000 São Paulo-SP
Brazil
PHONE +55 11 3146 4123
FAX +55 11 3146 4109
dynasytan@evonik.com
www.dynasytan.com

Asia / Pacific

Evonik Korea Ltd.

Inorganic Materials
94, Galsan 1-dong
Bupyeong-gu
Incheon, 403-081
Korea
PHONE +82 32 510 2433
FAX +82 32 505 2510
dynasytan@evonik.com
www.dynasytan.com

Asia / Pacific

Evonik India Pvt. Ltd.

Inorganic Materials
Krislon House
Saki Vihar Road, Anderi (E)
Mumbai - 400 072
India
PHONE +91 226 7238 800
FAX +91 226 7238 811
dynasytan@evonik.com
www.dynasytan.com