

Dynasytan® 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

Dynasytan® OCTMO

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

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

Dynasytan® 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 Dynasytan® OCTMO an easy-to-handle additive. During the hydrolysis reaction between water and Dynasytan® OCTMO a certain amount of methanol (VOC) is released.

Safety and handling

Before considering the use of Dynasytan® 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 Operations GmbH, Product Safety Department, E-MAIL sds-hu@evonik.com.

Packaging, storage and shelf life

Dynasytan® OCTMO are available in 25 kg, 190 kg drums and 870 kg bulk containers.

In originally, unopened containers Dynasytan® OCTMO has a shelf life of min. 12 months from delivery.

Properties and applications

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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