

Dynasylan® 9116

Hexadecyltrimethoxysilane

Technical data

Properties and test methods	Value	Unit	Method
Flash point	165/ 329	°C/ °F	DIN 51758
Density (20 °C/ 68 °F)	0.89	g/cm ³	DIN 51757
Viscosity, dynamic (20°C/ 68°F)	7	mPa·s (cSt)	DIN 53015
Boiling point (100 hPa)	180/ 356	°C/ °F	DIN 51751

Registrations

Dynasylan® 9116

EINECS/ELINCS (EU):	Yes
AICS (Australia):	Yes
DSL/NDSL (Canada):	NDSL
PICCS (Philippines):	Yes
TSCA (USA):	Yes
IECS (P.R. China):	Yes
ENCS (Japan):	Yes
ECL (South Korea):	Yes

Dynasylan® 9116 is a monomeric long-chain alkylfunctional silane.

Dynasylan® 9116 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® 9116** an easy-to-handle additive. During the hydrolysis reaction between water and **Dynasylan® 9116** a certain amount of methanol (VOC) is released.

Safety and handling

Before considering the use of Dynasylan® and Protectosil® 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® 9116 is supplied in 25 kg and 180 kg drums and 850 kg containers. The containers must remain tightly sealed and stored in a cool, well-ventilated place protected against moisture. In the unopened container **Dynasylan® 9116** has a shelf life of 12 months.

Properties and application

Dynasylan[®] 9116 silane can be used for the treatment of mineral fillers and pigments or inorganic surfaces in general (e.g. concrete, ATH, MDH). The long-chain alkyl functionality results in unique compound properties (better dispersion, high filler loadings, enhanced mechanical properties, reduced water uptake) when **Dynasylan**[®] 9116 treated fillers are incorporated into polymers (e.g. polypropylene).

Key Benefits:

Because of its unique structure, **Dynasylan**[®] 9116 exhibits superior hydrophobicity on substrates and forms weather- and moisture-resistant bonds to substrates as well. Use of **Dynasylan**[®] 9116 silane results in:

- waterproofing by impregnation when used as a water-repellent
- improvements in toughness in wollastonite-filled polypropylene, allowing the formulation of highly-filled compounds

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