

Dynasylan® IBTEO

monomeric alkylfunctional silane

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Registrations

Dynasylan® IBTEO

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

Technical data

Properties and test methods	Value	Unit	Method
Flash point	63	°C	DIN EN ISO 2719
Density (20 °C)	0.88	g/cm ³	DIN 51757
Boiling Point	approx. 186	°C	DIN 51751

Dynasylan® IBTEO is a clear colorless liquid and soluble in common non-polar organic solvents (e.g. petroleum ether, toluene). However its low volatility and viscosity make **Dynasylan®** IBTEO an easy-to-handle additive. During the hydrolysis reaction between water and **Dynasylan®** IBTEO a certain amount of ethanol (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® IBTEO is supplied in 25 kg canisters and 180 kg steel drums. The containers must remain tightly sealed and stored in a cool, well-ventilated place protected against moisture.

In the unopened container **Dynasylan®** IBTEO has a shelf life of 12 months.

Properties and application

Dynasylan[®] IBTEO silane can be used as a surface modifier to generate hydrophobicity and to increase compatibility to organic non polar matrices.

For example

- inorganic mineral fillers, e.g. ATH
- inorganic pigments, e.g. TiO₂
- glass, e.g. glass beads

The alkyl functionality results in unique compound properties when **Dynasylan**[®] IBTEO treated minerals or pigments are incorporated into polymers, e.g. polyethylene or polypropylene. Loading levels of 0.5 to 1.5wt.% **Dynasylan**[®] IBTEO based on the weight of filler or pigment are typically recommended.

Key benefits:

Because of its unique structure, **Dynasylan**[®] IBTEO exhibits superior hydrophobicity on inorganic substrates (treated pigments & fillers) consequently forms weather- and moisture-resistant bonds to substrates as well.

Use of **Dynasylan**[®] IBTEO silane:

- compatibility improvements between pigments or inorganic fillers and organic non polar 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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