

Product Information

Dynasytan® SILBOND® H-25

Ethyl polysilicates binder

CAS NUMBER

confidential

PRODUCT DESCRIPTION

Dynasytan® SILBOND® H-25 is a clear, low-viscosity pre-hydrolyzed ethyl polysilicate binder with minimum 24.5% silica (as SiO₂).

Typical Properties

Property	Unit	Value
Appearance		Clear Liquid
Boiling Point, min.	°C	78
Color		Colorless
Density (20 °C)	g/cm ³	0.940-0.960
Flash Point, min.	°C	13
Freezing Point	°C	-57

The data represents typical values (no product specification)

TYPICAL APPLICATIONS

Its primary use is in the production of facings and molds for precision investment casting. Other applications include formation of ceramic shapes and cores.

Product Composition

Product Composition	Unit	Value
Silicon Dioxide (SiO ₂) Content	wt%	24.0-25.0

The data represents typical values (no product specification)

BENEFITS & ADVANTAGES

Dynasytan® SILBOND® H-25 can be used, as delivered, to make ceramic molds for the Precision Investment Casting industry.

The degree of hydrolysis and acidity have been optimized for the required reactivity and sufficient storage stability.

The hydrolysis and condensation has been started during the production of the binder. Through a shift in the pH this process is accelerated. This shift is achieved by addition of fillers, pigments, additive, or through the evaporation of solvent or exposure to atmospheric moisture. The resulting silicic acid gel cures rapidly at ambient temperatures in air. The process of curing can be accelerated through the addition of alkali catalysts.

HANDLING & PROCESSING

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 on our website <https://silanes.evonik.com/en> or upon request from your local representative, customer service or from Evonik Operations GmbH, Product Safety Department, E-MAIL sds-hu@evonik.com.

PACKAGING

Dynasytan® SILBOND® H-25 could be available in pails, drums, totes and tanker quantities.

Please ask for further details.

SHELF LIFE

In unopened container Dynasytan® SILBOND® H-25 has a shelf life of min. 6 months from date of manufacture.

Registration Listings

Registry	Status
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Australia (AIC)	Yes
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Canada (DSL)	Yes
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China (IECSC)	Yes
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EU (REACH)	Yes
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Japan (ENCS)	Yes
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South Korea (KECL)	Yes
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Registration Listings

Registry	Status
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New Zealand (NZIoC)	Yes
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Philippines (PICCS)	Yes
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Taiwan (TCSI)	Yes
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United States of America (TSCA)	Yes
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Disclaimer

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