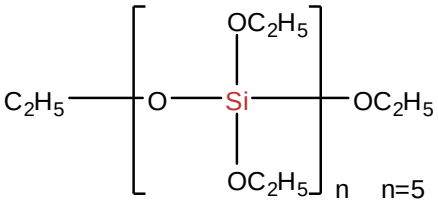
# SiSiB® PC5423 SILANE



## Chemical Name

Ethyl Polysilicate 32, Ethyl Silicate 32

## Chemical Structure




## Introduction

SiSiB® PC5423 is a hydrolyzed and oligomerized form of ethyl silicate. It is a mixture of monomers, dimers, trimers and cyclic polysiloxanes. SiSiB® PC5423 is a transparent liquid containing 32% silica ($SiO_2$) by mass, but in practice, in addition to chain condensates, it also contains branch-shaped and ring-shaped condensates.

## Typical Physical Properties

| | |
|---|---|
| CAS No. | 11099-06-2 or 68412-37-3 |
| EINECS No. | 234-324-0 or 270-184-7 |
| Formula | N/A |
| Molecular Weight | app.260 |
| Boiling Point | N/A°C [760mmHg] |
| Flash Point | 38°C |
| | |
| Color and Appearance | Colorless transparent liquid |
| Density $_{25/25°C}$ | 0.96 |
| Active Content: | Min.99.0% |
| $SiO_2$ content | 32.0% |

## Applications

SiSiB® PC5423 is used to deposit silicic acid formed as a result of complete hydrolysis.

**Power Chemical**
**ISO9001 ISO14001 certificated**

The resulting silicic acid bonds well to many inorganic substrates, such as ceramic, fillers, glass, metal, pigments and synthetic fibers. The deposition of a thin $SiO_2$ layer improves the chemical and the thermal stability and mechanical properties.

SiSiB® PC5423 can be used as a binder in zinc-rich (corrosion resistant) coating.

SiSiB® PC5423 can be used as a starting material for sol-gel process.

SiSiB® PC5423 can be used as a crosslinker component in cold curing silicone rubber systems.

SiSiB® PC5423 can be used as a hardening component in dentistry for impression materials and as binder for embedding material.

SiSiB® PC5423 can be used as a binder in precision foundry industry.

## Packing and Storage

SiSiB® PC5423 is supplied in 190Kg steel drum or 950Kg IBC container.

In the unopened original container SiSiB® PC5423 has a shelf life of one year in a dry and cool place.

## Notes

All information in the leaflet is based on our present knowledge and experience. We reserve the right to make any changes according to technological progress or further developments. Performance of the product described herein should be verified by testing.

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Please send all technical questions concerning quality and product safety to: silanes@SiSiB.com.