



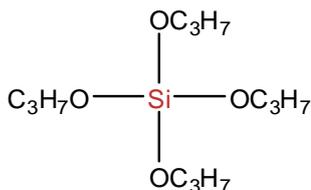
# SiSiB® PC5430 SILANE

- 1 -

## CHEMICAL NAME

Tetrapropoxysilane [TPOS], Tetrapropyl orthosilicate

## CHEMICAL STRUCTURE



## INTRODUCTION

SiSiB® PC5430, [also called n-Propyl Silicate] is used as a cross-linking agent for silicon rubber, and as a modifying agent for organic and inorganic resins. The ethyl group of ethyl silicate is replaced by the N-propyl group, so the speed of hydrolysis is slower than ethyl silicate.

## TYPICAL PHYSICAL PROPERTIES

CAS No.	682-01-9
EINECS No.	211-659-0
Formula	C <sub>12</sub> H <sub>28</sub> O <sub>4</sub> Si
Molecular Weight	264.44
Boiling Point	225°C [760mmHg]
Flash Point	95°C
Color and Appearance	Colorless transparent liquid
Density <sub>25/25°C</sub>	0.916
Refractive Index	1.401 [20°C]
Purity:	Min 98.0%
SiO <sub>2</sub> Content:	22.5%

## APPLICATIONS

**Power Chemical**  
ISO9001 ISO14001 certified

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# SiSiB® PC5430 SILANE

- 2 -

SiSiB® PC5430 may be used as an inorganic binder for refractory fillers and pigments, like precision investment castings.

SiSiB® PC5430 may be used as a second backup casting coating. It cures faster than colloidal silica system.

SiSiB® PC5430 may be hydrolyzed to form silicon dioxide (silica).

SiSiB® PC5430 may be used as a binder in zinc-rich (corrosion resistant) coating.

SiSiB® PC5430 may be used as a starting material for sol-gel process.

SiSiB® PC5430 may be used as a crosslinking agent for silicone sealant.

SiSiB® PC5430 may be used as a drying agent in sealing compositions.

SiSiB® PC5430 may be used as a chemical intermediate.

## PACKING AND STORAGE

SiSiB® PC5430 is supplied in 180Kg steel drum or 900Kg IBC container.

In the unopened original container SiSiB® PC5430 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.

We specifically disclaim any other express or implied warranty of fitness for a particular purpose or merchantability. We disclaim liability for any incidental or consequential damages.

Please send all technical questions concerning quality and product safety to: [silanes@SiSiB.com](mailto:silanes@SiSiB.com).

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