

## SiSiB® PC5420 SILANE

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## CHEMICAL NAME

Tetraethoxysilane (TEOS), Tetraethyl orthosilicate, Ethyl Polysilicate 28#

## CHEMICAL STRUCTURE

$$C_2H_5$$
 $C_2H_5O$ 
 $S_1$ 
 $C_2H_5$ 
 $C_2H_5$ 
 $C_2H_5$ 

### INTRODUCTION

SiSiB® PC5420, the ethyl ester of orthosilicic acid, is a colorless, low-viscosity liquid with an SiO<sub>2</sub> content of 28.5%.

## TYPICAL PHYSICAL PROPERTIES

0.10.11	
CAS No.	78-10-4
EINECS No.	201-083-8
Formula	C <sub>4</sub> H <sub>20</sub> O <sub>4</sub> Si
Molecular Weight	208.33
Boiling Point	168°C [760mmHg]
Flash Point	46°C
Color and Appearance	Colorless transparent liquid
Density <sub>25/25°C</sub>	0.934
Refractive Index	1.3838 [20°C]
Purity:	Min 99.0%

#### APPLICATIONS

SiSiB® PC5420 may be used as an inorganic binder for refractory fillers and pigments, like precision investment castings.



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SiSiB® PC5420 may be used as a second backup casting coating. It cures faster than colloidal silica system.

SiSiB® PC5420 may be hydrolyzed to form silicon dioxide (silica).

SiSiB® PC5420 may be used as a binder in zinc-rich (corrosion resistant) coating.

SiSiB® PC5420 may be used as a starting material for sol-gel process.

SiSiB® PC5420 may be used as a crosslinking agent for silicone sealant.

SiSiB® PC5420 may be used as a drying agent in sealing compositions.

SiSiB® PC5420 may be used as a chemical intermediate.

#### PACKING AND STORAGE

SiSiB® PC5420 is supplied in 190Kg steel drum or 900Kg IBC container.

In the unopened original container SiSiB® PC5420 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.



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