



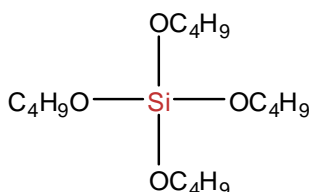
# SiSiB<sup>®</sup> PC5440 SILANE

- 1 -

## CHEMICAL NAME

Tetrabutoxysilane (TPOS),

## CHEMICAL STRUCTURE



## INTRODUCTION

The ethyl group of ethyl silicate is replaced by N-butyl, so the speed of hydrolysis is even slower than N-propyl silicate, and in addition to a cross-linking agent for silicon rubber, and a modifying agent for organic and inorganic resins, it can also be used as a heating medium or cooling medium by making it a condensate. There are also hopes for applications to electron donors in Ziegler-Natta catalysts.

## TYPICAL PHYSICAL PROPERTIES

CAS No.	4766-57-8
EINECS No.	225-305-8
Formula	C <sub>16</sub> H <sub>36</sub> O <sub>4</sub> Si
Molecular Weight	320.54
Boiling Point	115°C [3mmHg]
Flash Point	79°C
Color and Appearance	Colorless transparent liquid
Density <sub>25/25°C</sub>	0.899
Refractive Index	1.4126 [20°C]
Purity:	98.0% by GC

## APPLICATIONS

**Power Chemical**  
ISO9001 ISO14001 certified

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# SiSiB® PC5440 SILANE

- 2 -

SiSiB® PC5440 may be used as an inorganic binder for refractory fillers and pigments, like precision investment castings.

SiSiB® PC5440 may be used as a second backup casting coating. It cures faster than colloidal silica system.

SiSiB® PC5440 may be hydrolyzed to form silicon dioxide (silica).

SiSiB® PC5440 may be used as a binder in zinc-rich (corrosion resistant) coating.

SiSiB® PC5440 may be used as a starting material for sol-gel process.

SiSiB® PC5440 may be used as a crosslinking agent for silicone sealant.

SiSiB® PC5440 may be used as a drying agent in sealing compositions.

SiSiB® PC5440 may be used as a chemical intermediate.

## PACKING AND STORAGE

SiSiB® PC5440 is supplied in 180Kg steel drum or 900Kg IBC container.

In the unopened original container SiSiB® PC5440 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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