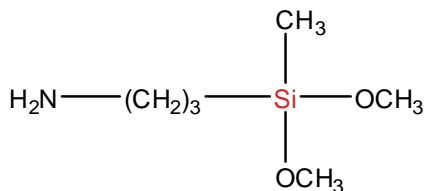


SiSiB[®] PC1130

gamma-Aminopropylmethyldimethoxysilane

CHEMICAL STRUCTURE



INTRODUCTION

SiSiB[®] PC1130 is a colorless to yellowish liquid with an amine-like odor which is soluble in alcohols and aliphatic and aromatic hydrocarbons.

SiSiB[®] PC1130 acts as an adhesion promoter between inorganic materials and organic polymers, as a surface modifier and for material changes to chemical substances.

TYPICAL PHYSICAL PROPERTIES

CAS No.	3663-44-3
EINECS No.	222-919-8
Formula	C ₆ H ₁₇ NO ₂ Si
Molecular Weight	163.29
Boiling Point	Min.200°C [760mmHg]
Flash Point	69°C
Color and Appearance	Colorless transparent liquid
Density _{25/25°C}	0.945
Refractive Index	1.4200 [25°C]
Min. Purity	97.0%

APPLICATIONS

SiSiB[®] PC1130 is an important or even essential constituent in many applications. SiSiB[®] PC1130 is particularly important as an additive to cold-curing phenolic and furan foundry resins to improve the flexural strength of sand/resin elements with very long shelf life of the resins.

Further examples are:

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SiSiB® PC1130

gamma-Aminopropylmethyldimethoxysilane

Glass fiber/glass fabric composites: as size constituent or finish

Glass and metal primers

Abrasives: as additive to phenolic resin binders

Sealants and adhesives: as primer or additive and for chemical modification

Mineral-filled composites: for pretreatment of fillers and pigments or as additive

Synthesis of functional silicones

The most important effects which can be achieved using PC1130 are improvements in product properties, such as

Adhesion

Mechanical properties, for example flexural strength, tensile strength, impact strength and modulus of elasticity

Moisture and corrosion resistance

Electrical properties, for example dielectric constant, volume resistivity

And improvements in processing properties, such as

Better filler dispersion

Rheological behavior: reduction in viscosity, Newtonian behaviour

Higher degree of filling

PACKING AND STORAGE

SiSiB® PC1130 is supplied in 180Kg steel drum or 900Kg IBC container.

In the unopened original container SiSiB® PC1130 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:

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