

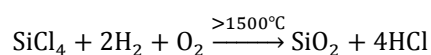


## COMPOSITION

SiSiB® FS-0380 is a hydrophilic fumed silica with a specific surface area of 380 m<sup>2</sup>/g.

## INTRODUCTION

Hydrophilic fumed silica is manufactured by hydrolysing volatile chlorosilanes in an oxyhydrogen flame. In chemical terms, the loose white powder consists of highly pure amorphous silicon dioxide. Hydrophilic silica is wetted by water and can be dispersed in water. Hydrophobic silica is produced by the chemical reaction of hydrophilic silica with reactive silanes, e.g. chlorosilanes or hexamethyldisilazane. It has water-repellent properties and is no longer dispersible in water.



All untreated fumed silicas are characterized by:

- ◆ High purity
- ◆ Aggregated structure
- ◆ Submicron particle size
- ◆ Low bulk density
- ◆ Hydrophilic surface

## TYPICAL PHYSICAL PROPERTIES

CAS No.	112945-52-5 or 7631-86-9
EINECS No.	231-545-4
Specific surface area (BET)	380 ± 15 m <sup>2</sup> /g
Average primary particle size	5~40 nm
SiO <sub>2</sub> content, wt.% (based on the substance heated at 1000°C for 2 h)	> 99.8%
Loss on drying , ex works (2h at 105 °C) wt.%	<2.5%
Ignition loss (Loss of weight at 1000°C / 2h), wt.% (based on the substance dried at 105°C for 2 h)	<2.0%
pH-Value (in 4 % aqueous dispersion)	3.6~4.3
Tamped density	~50g/l



# SiSiB® FS-0380 SILICA

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## APPLICATIONS

SiSiB® FS-0380 can be applied as a thickening and thixotropic agent in many organic systems, e.g. in unsaturated polyesters, coatings, printing inks, adhesives and others, if high gloss and transparency is required.

SiSiB® FS-0380 can be used as a reinforcing filler in elastomers, mainly silicone-elastomers.

SiSiB® FS-0380 can be used as a free flow additive in the production of powder substances and food stuff.

## PACKING AND STORAGE

SiSiB® FS-0380 is supplied in multiple layer 10 kg bags.

In the original unopened packaging, SiSiB® FS-0380 has a shelf life of 24 months under dry conditions.

## 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: [silica@PCC.asia](mailto:silica@PCC.asia)

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