

SiSiB[®] FS-0300

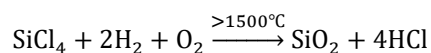
Hydrophilic Fumed Silica

CHEMICAL NAME

SiSiB[®] FS-0300 is a hydrophilic fumed silica with a specific surface area of 300 m²/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.	601-216-3 or 231-545-4
Specific surface area (BET)	300 ± 15 m ² /g
Average primary particle size	5~40 nm
SiO ₂ content, wt.% (1000°C, 2h)	> 99.8%
Loss on drying, (105°C, 2h) wt. %	<2.0%
Ignition loss (1000°C, 2h), wt. %	<2.0%
pH-Value (in 4 % aqueous dispersion)	3.6~4.3
Tamped density	~50g/l

APPLICATIONS

SINOPCC GROUP

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SiSiB[®] FS-0300

Hydrophilic Fumed Silica

SiSiB[®] FS-0300 can be applied as a thickening and thixotropic agent in many organic systems, e.g. in unsaturated polyesters, coatings, printing inks, adhesives and sealants.

SiSiB[®] FS-0300 is used as a reinforcing filler for HTV and LSR at a high transparency level.

PACKING AND STORAGE

SiSiB[®] FS-0300 is supplied in multiple layer 10 kg bags.

In the original unopened packaging, SiSiB[®] FS-0300 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: support@SiSiB.com.