

SiSiB® PS901 Precipitated Silica

INTRODUCTION

SiSiB® PS901 is a high-purity precipitated silica designed for high-performance silicone rubber applications. Featuring high specific surface area, high oil absorption and fine primary particle structure, it provides excellent reinforcing efficiency, transparency and anti-yellowing performance in silicone elastomer systems. It can effectively improve hardness, tensile strength and tear resistance of cured compounds.

FEATURES

- High reinforcing efficiency in silicone rubber compounds
- Excellent transparency and low yellowing tendency
- Improves tensile strength and tear resistance
- Fine particle structure with high surface area
- High purity and stable chemical properties
- Good processability in silicone elastomer formulations

PHYSICAL PROPERTIES

CAS No.	112 926-00-8 (formerly 7631-86-9)
EINECS No.	231-545-4
Appearance	White powder
SiO ₂ content (%)	Min.99.0
Loss on Drying (%) (105°C, 2h)	5.0-8.0
Loss on Ignition (%) 1000°C	Max. 6.0
pH Value	6.0-7.0
Fe Content (mg/kg)	Max.200
DBP Absorption (cm ³ /g)	2.50-3.00
BET Surface Area (m ² /g)	160-190
Particle Size D ₅₀ (μm)	8.00-13.00
Electrical Conductivity (μS/cm)	Max.200

Note: These values are typical and are not intended for use as specifications.

APPLICATIONS

SiSiB® PS901 is mainly used as a reinforcing filler in high-end silicone rubber applications, including transparent silicone rubber, sealing materials, molded silicone parts and other high-performance elastomer systems requiring high mechanical strength and appearance quality.

USAGE GUIDELINES

SiSiB® PS901 can be incorporated into silicone rubber formulations using

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conventional mixing equipment. Uniform dispersion is recommended to achieve optimal reinforcing performance and transparency. Formulation compatibility and processing conditions should be evaluated before commercial production.

PACKING

SiSiB® PS901 is supplied in multiple layer 20 kg bags.

HANDLING

This document does not contain the product safety information required for safe use. Before handling, please refer to the product and safety data sheets, as well as container labels, for information on safe usage, physical hazards, and health risks. Safety Data Sheet is available on the website, from the distributor, or by contacting SiSiB customer service.

STORAGE

SiSiB® PS901 should be stored in a dry, sealed and well-ventilated area. Avoid exposure to moisture and volatile substances.

When stored in the original unopened packaging under recommended conditions, the product has a shelf life of 24 months from the date of manufacture. For best performance, use within 12 months.

NOTE

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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