

TECHNICAL SPECIFICATION

asg chemie

SiO₂ Amorphous Fumed Silica (Untreated, Hydrophilic)

CAS Number: 112945-52-5

PRODUCT DESCRIPTION

Untreated hydrophilic fumed silica is a high-purity amorphous silicon dioxide produced via flame hydrolysis of chlorosilanes. It is characterized by an extremely fine particle size and a large specific surface area, giving excellent performance in rheology control, reinforcement, thickening, and anti-settling. The material improves powder flow, enhances mechanical strength in elastomers and coatings, and provides outstanding thixotropy and suspension stability in liquid formulations.

KEY FEATURES

- Excellent rheology and thixotropy control
- Provides reinforcement in polymers and elastomers
- Improves free-flow in powders and dry blends
- Effective anti-sagging and anti-settling additive
- High purity (>99.8% SiO₂) and consistent performance

APPLICATIONS

- Unsaturated polyester resins
- Adhesives and sealants
- Printing inks
- Paints and coatings
- Silicone rubber (HCR and RTV)
- Foods and cosmetics

TYPICAL SPECIFICATIONS

Parameter	Unit	Specification
Specific Surface Area (BET)	m ² /g	200 ± 20
pH (4% dispersion)	-	3.7 – 4.7
Drying Loss (2h at 105 °C)	wt. %	≤ 1.0
Ignition Loss (2h at 1000 °C)	wt. %	≤ 1.5
SiO ₂ Content	wt. %	≥ 99.8
Bulk Density	g/L	30 – 50

TECHNICAL SERVICE

CUSTOMER SUPPORT

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PACKAGING

- Available in 10 kg and 20 kg multi-ply paper bags with PE liner or 100 kg bulk bags.
- Other packaging options may be available upon request.

STORAGE

- Store in tightly sealed containers in a cool, dry environment.
- Protect from moisture, heat, and contamination.
- Handle carefully to minimize dust formation.

SAFETY & HANDLING

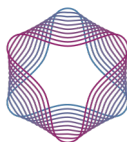
- Fumed silica is considered non-toxic but may cause mechanical irritation if inhaled.
- Use adequate ventilation and appropriate PPE, including gloves, goggles, and dust masks.
- Refer to the Safety Data Sheet (SDS) for detailed information on safe handling, exposure controls, and disposal.

LIMITED WARRANTY INFORMATION**PLEASE READ CAREFULLY.**

Limited Warranty: ASG Chemical Holdings, LLC. (ASG CHEMIE) believes the information in this document to be accurate as at the date of preparation noted below, but, to the maximum extent permitted by law, ASG CHEMIE accepts no responsibility for any loss or damage caused by any person acting or refraining from action because of this information. The provision of this information should not be construed by anyone as a recommendation to use this product. No one should use any product in violation of any patent or other intellectual proprietary rights or in breach of any statute or regulation. Users should rely on their own knowledge and inquiries and make their own determination as to the applicability of this information in relation to their particular purposes and specific circumstances. Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace and in conjunction with other substances or products.

For more information or answers to questions about the use in specific applications, contact your Technical Sales Representative or call 1-833.ASG.CHEM. (1.833.274.2436).

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Bulk Chemicals and Specialty Performance Materials

AMORPHOUS FUMED SILICA (UNTREATED, HYDROPHILIC)

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