



FS-380

Hydrophilic Fumed Silica (Untreated Silicon Dioxide)

CAS Number: 7631-86-9

Formula: SiO_2

DESCRIPTION

Untreated Hydrophilic Fumed Silica – FS-380 is a high-surface-area fumed silica produced by hydrolysis of chlorosilane in a hydrogen-oxygen flame at temperatures above 1000 °C. It is supplied as a fine white powder and offers excellent thickening, reinforcing, and rheology-control performance. Due to its very high specific surface area and small particle size, it is widely used in elastomers, silicone rubbers, adhesives, coatings, inks, and specialty industrial applications.

KEY FEATURES

- Very high specific surface area for strong reinforcement
- Excellent thickening and rheology-control efficiency
- Improves transparency and dispersion in formulations
- High-purity hydrophilic silica
- Suitable for demanding elastomer and liquid systems

APPLICATIONS

- Liquid silicone rubber (LSR) and silicone elastomers
- Adhesives and sealants
- Coatings, inks, and paints
- Catalyst carriers
- Plastics and specialty industrial formulations

TYPICAL SPECIFICATIONS

Parameter	Specification
Specific Surface Area (BET)	270 ± 30 m ² /g
pH (4% suspension)	3.9 – 4.5
Drying Loss (2 h at 105 °C)	≤ 2.5 %
Loss on Ignition	≤ 2.5 %
Tamped Density	40 – 60 g/L
Sieve Residue	≤ 250 mg/kg
SiO ₂ Content (ignited basis)	≥ 99.8 %

**LIMITED WARRANTY INFORMATION.
PLEASE READ CAREFULLY.**

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This document is subject to revision without notice as new data becomes available.

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PACKAGING

- 10 kg multi-layer kraft paper bags
- 150 kg polypropylene bags

STORAGE & HANDLING

Store in a cool, dry, and well-ventilated area. Protect from moisture and contamination. Avoid contact with volatile substances. Keep packaging tightly sealed when not in use. Recommended shelf life is two years from the date of production when stored correctly.

SAFETY

Avoid inhalation of dust and prolonged contact with eyes or skin. Use appropriate personal protective equipment during handling. Refer to the Safety Data Sheet (SDS) for detailed safety, handling, and regulatory information.