



FS-150

Hydrophilic Fumed Silica (Untreated Silicon Dioxide)

CAS Number: 7631-86-9

Formula: SiO₂

DESCRIPTION

Untreated Hydrophilic Fumed Silica – FS-150 is produced by hydrolysis of chlorosilane in a hydrogen-oxygen flame at temperatures above 1000 °C. The product is supplied as a fine, white, fluffy powder with high specific surface area. It is widely used as a reinforcing filler and rheology control agent in elastomers and liquid systems, offering excellent thickening, anti-settling, and reinforcement performance.

KEY FEATURES

- Hydrophilic fumed silica with high surface area
- Excellent reinforcing performance in elastomers
- Effective rheology control and thickening agent
- Improves anti-settling and sag resistance
- High purity silica content
- Good dispersion in a wide range of formulations

APPLICATIONS

- RTV and HTV silicone rubber
- Elastomers and rubber compounds
- Adhesives and sealants
- Coatings, inks, and paints
- Insulation and specialty materials
- Leather finishing systems

TYPICAL SPECIFICATIONS

Parameter	Specification
Specific Surface Area (BET)	150 ± 15 m ² /g
pH (4% suspension)	3.9 – 4.5
Drying Loss (2 h at 105 °C)	≤ 1.5 %
Loss on Ignition (2 h)	≤ 2.0 %
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

Supplied in multi-layer kraft paper bags (10 kg per bag) or polypropylene bulk bags (up to 150 kg).

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.