



Hydrophobic Fumed Silica 139

CAS No.: 7631-86-9

Formula: SiO_2

DESCRIPTION

Hydrophobic Fumed Silica 139 is a surface-modified fumed silica produced by treating hydrophilic fumed silica (BET surface area 200 m²/g) with polydimethylsiloxane (PDMS). The treatment renders the surface highly hydrophobic, improving flow characteristics and anti-caking behaviour in powders. It provides excellent thickening, rheology control, and thixotropic effects in resin systems, particularly epoxy and silicone formulations. Its high purity and controlled particle characteristics make it ideal for demanding industrial and specialty applications.

KEY FEATURES

- It provides thixotropic thickening, anti-settling, and anti-caking properties in non-polar systems.
- Surface-treated for improved dispersion in resins, oils, silicones, and organic formulations.
- Used in coatings, adhesives, sealants, inks, cosmetics, and other moisture-sensitive applications.

APPLICATIONS

- Rheology and anti-settling agent in epoxy resins and coatings
- Reinforcing filler for silicone rubber and sealants
- Thickener and anti-sagging additive in adhesives and printing inks
- Flow and anti-caking aid in powder coatings and greases

TYPICAL SPECIFICATIONS

Parameter	Unit	Specification
Specific Surface Area (BET)	m ² /g	80 – 140
Carbon Content	%	4.0 – 7.0
pH (4 % dispersion)	–	4.0 – 7.0
Loss on Drying (105 °C)	%	≤ 0.70
Loss on Ignition (1000 °C)	%	≤ 10.0
Tapped Density	g/L	40 – 60
Silica Content	%	≥ 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

- Available in 10 kg bags
- 24 bags per pallet (240 kg net per pallet).
- Other packaging sizes may be available on request.

SHELF LIFE

When stored in unopened original packaging under dry, cool conditions, Hydrophobic Fumed Silica 139 has a recommended shelf life of 24 months from the date of manufacture.

STORAGE

Store in a cool, dry place away from moisture and direct sunlight. Keep the bags tightly sealed to prevent moisture absorption. Recommended storage temperature below 40 °C. Shelf life is at least 12 months under normal conditions.

SAFETY & HANDLING

Avoid generation of dust and ensure adequate ventilation during handling. Use appropriate personal protective equipment (PPE) including gloves, goggles and dust mask if necessary. Refer to the Safety Data Sheet (SDS) for full details on first aid, handling and disposal procedures.