

TECHNICAL SPECIFICATION

asg chemie

SiO₂ Hydrophobic Fumed Silica 139

CAS Number: 7631-86-9

PRODUCT 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

- White crystalline solid, free-flowing and highly soluble
- Excellent purity (≥ 98%) for consistent performance
- Low chloride, sulfate, and insolubles
- Provides flexibility in solution preparation and transport

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

TECHNICAL SERVICE
CUSTOMER SUPPORT

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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.

STORAGE

- 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.

SHELF LIFE

- 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.

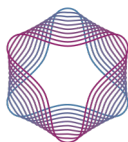
LIMITED WARRANTY INFORMATION

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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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