



# HFS-140H

## Hydrophobic Fumed Silica (Surface Treated Silicone Dioxide)

CAS Number: 68909-20-6

Formula:  $\text{SiO}_2$

### DESCRIPTION

Hydrophobic Fumed Silica – HFS-140H is produced by chemical post-treatment of hydrophilic fumed silica with hexamethyldisilazane (HMDS). The product exhibits excellent hydrophobicity, low thickening behavior, and good processability. It is widely used in RTV-1K and RTV-2K silicone rubber systems, sealants, adhesives, coatings, and high-loading polymer formulations.

### KEY FEATURES

- HMDS surface-treated hydrophobic fumed silica
- Excellent hydrophobicity and moisture resistance
- Low thickening behaviour for improved processability
- Provides rheology control (anti-settling, anti-sag, thixotropy)
- Enhances reinforcement in silicone and polymer systems
- Improves storage stability and reduces sedimentation in filled formulations
- Good compatibility in RTV silicone, sealants, adhesives, coatings, and silicone defoamer systems

### APPLICATIONS

- Silicone antifoam / defoamer formulations (balanced performance)
- RTV-1K and RTV-2K silicone rubber
- Sealants and adhesives
- Coatings and inks
- Polymer compounding
- Anti-settling and rheology control applications

### TYPICAL SPECIFICATIONS

| Parameter                                  | Specification              |
|--------------------------------------------|----------------------------|
| Specific Surface Area (BET)                | 140 ± 20 m <sup>2</sup> /g |
| pH (4% suspension, water:methanol = 1:1)   | 6.0 – 9.0                  |
| Loss on Drying (105 °C, 2 h)               | ≤ 0.7 %                    |
| Loss on Ignition (2 h)                     | ≤ 4.0 %                    |
| Tamped Density                             | 45 – 65 g/L                |
| Carbon Content                             | 2.0 – 4.0 %                |
| Silica Content (based on ignited material) | ≥ 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**

- Multi-layer kraft paper bags or polypropylene bags.
- Typical packaging: 10 kg bags or 15 kg bags.

**STORAGE & HANDLING**

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

**SAFETY**

Read the Safety Data Sheet (SDS) carefully before use. Avoid inhalation of dust and prolonged contact with eyes or skin. Use appropriate personal protective equipment during handling.