



HFS-110P

Hydrophobic Fumed Silica (Surface Treated Silicone Dioxide)

CAS Number: 68083-14-7

Formula: SiO_2

DESCRIPTION

HFS-110P is a hydrophobic fumed silica produced by chemical post-treatment of hydrophilic fumed silica with polydimethylsiloxane (PDMS). The surface treatment provides strong hydrophobic characteristics while maintaining excellent rheology control and dispersion performance. The material is widely used in silicone rubber systems, coatings, inks, adhesives, sealants, lubricants, cable gels, vinyl ester resins, and powder coating formulations where improved thickening, thixotropy, and reinforcement are required.

KEY FEATURES

- Hydrophobic surface modification
- Excellent thickening and thixotropic properties
- Improves rheology control in liquid systems
- High reinforcement efficiency in polymers
- Good dispersion in organic systems
- Suitable for high filler loading formulations

APPLICATIONS

- Silicone antifoam / defoamer formulations (easy dispersion)
- Silicone rubber systems
- Adhesives and sealants
- Coatings and inks
- Lubricants and cable gels
- Vinyl ester and epoxy resin systems
- Powder coating formulations

TYPICAL SPECIFICATIONS

Parameter	Typical Value
Specific Surface Area (BET)	110 ± 30 m ² /g
pH (4% suspension, water:methanol 1:1)	4.0 – 7.0
Loss on Drying (105°C, 2 h)	≤ 0.7 %
Loss on Ignition	≤ 10.0 %
Tamped Density	45 – 70 g/L
Carbon Content	4.0 – 7.0 %
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.

TECHNICAL SUPPORT
+61294103317
info@chemport.com.au

Level 9 Tower A
821 Pacific Highway
Chatswood NSW 2067
Australia
chemport.com.au

PACKAGING

- Supplied in multi-layer kraft paper bags or polypropylene bags.
- Typical packaging sizes include 10 kg bags or 150 kg bags depending on customer requirements.

STORAGE & HANDLING

Store in a cool, dry, and well-ventilated environment. Keep packaging tightly sealed to prevent contamination and moisture absorption. Avoid contact with volatile substances. Recommended shelf life is up to two years from the production date when stored under suitable conditions.

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.