

# Product Information

## Bi-SiL R272 Hydrophobic Fumed Silica

### Product Description:

Bi-SiL R272 Hydrophobic Fumed Silica is a high purity, white colloidal powder composed of fumed silica that has been treated with dimethyldichlorosilane (DDS). Fumed silica is generated from burning volatile silanes in an oxygen-hydrogen flame at high temperatures. The treatment with DDS provides this product with hydrophobicity, reduced water absorption, increased abrasion and corrosion resistance.

Bi-SiL R272 Hydrophobic Fumed Silica can prolong the shelf-life of RTV silicone sealants and improve the stability of pigments. It provides thickening and thixotropic properties when added to coatings. It has anti-caking and anti-sagging properties in inks.

### Applications:

Bi-SiL R272 Hydrophobic Fumed Silica is used in a variety of applications but not limited to adhesives, elastomers, composite materials, powder coatings, inks, glassy metals, greases, flask resins, sealants and toners.

### Specifications:

Parameters (units)	Specifications
Specific surface area, BET (m <sup>2</sup> /g)	90 - 150
pH, 4% dispersion	3.7 - 5.0
Loss on drying, 2 hrs at 105 °C (%)	≤ 1.0
Loss on ignition, 2 hrs at 1000 °C based on loss on drying material (%)	≤ 2.5
Silica content, based on ignited material (%)	≥ 99.8
Tapped density, based on material dried for 2 hrs at 105 °C (g/L)	40 - 60
Carbon content, based on material dried for 2 hrs at 105 °C (%)	0.6 - 1.2

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## Packaging:

Material is available in 10 kg paper bags. Further packaging options may be available upon enquiry.

## Storage:

Product should be stored in a dry place away from direct sunlight in sealed, original packaging.

## Safety:

For further safety information refer to product SDS available from your Bisley International contact.

Disclaimer: This document is for information purposes only. Customers are responsible for testing and confirming the suitability of this product in their application. To the extent permitted by law, no warranty as to merchantability or fitness of purpose, expressed or implied, is made.

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