

# Product Information

## R110 Hydrophobic Fumed Silica

### Product Description:

R110 Hydrophobic Fumed Silica is a high purity, white colloidal powder composed of fumed silica that has been treated with poly-dimethyl siloxane (PDMS). Fumed silica is generated from the reduction of high purity quartz with coal in an electric arc furnace at high temperatures. It is generated in the manufacture of ferrosilicon alloy and silicon metal. The treatment with PDMS provides this product with hydrophobicity, reduced water absorption, increased abrasion and corrosion resistance.

R110 Hydrophobic Fumed Silica has thickening and thixotropic properties when added to cable gels and polar liquids such as epoxy, polyurethane and vinyl ester resins. It has anti-settling properties when added to heavy fillers.

### Applications:

R110 Hydrophobic Fumed Silica is used in a variety of applications but not limited to adhesives, cable gels used in fiber optic cables, composite materials, coatings, inks, glassy metals, greases, flask resins, sealants and toners.

### Specifications:

Parameters (units)	Specifications
Specific surface area, BET (m <sup>2</sup> /g)	100 ± 20
pH, 4% dispersion	4.0 - 7.0
Loss on drying, 2 hrs at 105 °C (%)	≤ 1.0
Loss on ignition, 2 hrs at 1000 °C (%)	≤ 2.5
Silica content (%)	≥ 99.8
Tapped density (g/L)	40 - 60
Carbon content (%)	3.0 - 4.0

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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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