

Product Information

Bi-SiL R110 Hydrophobic Fumed Silica

Product Description:

Bi-SiL 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 burning volatile silanes in an oxygen-hydrogen flame at high temperatures. The treatment with PDMS provides this product with hydrophobicity, reduced water absorption, increased abrasion and corrosion resistance.

Bi-SiL 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:

Bi-SiL 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 ² /g)	100 ± 20
pH, 4% dispersion	4.0 - 7.5
Loss on drying, 2 hrs at 105 °C (%)	≤ 1.5
Loss on ignition, 2 hrs at 1000 °C (%)	≤ 10
Silica content (%)	≥ 99.8
Tapped density (g/L)	40 - 60
Carbon content (%)	3.5 - 6.5

Bisley International LLC
1790 Hughes Landing Boulevard Suite 400
The Woodlands 77380 TX USA
Phone number: +1 (844) 424 7539
Emergency telephone number: +1 855 237 5573

bisleyinternational.com

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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.

Global Headquarters

Sydney, Australia

Bisley & Company
Level 12, Tower B Citadel Towers
799 Pacific Highway
Chatswood NSW 2067 Australia
Phone: +61 2 8905 4200
Fax: +61 2 8905 4238
Email: australia@bisley.biz

Jakarta, Indonesia

PT Bisindo Kencana
Puri Indah
Financial Tower
9th Floor, Unit 09 Jalan Puri
Lingkar Dalam Blok
T8 Jakarta Barat 11610
Indonesia
Phone: +6221 530 7287

Bangkok, Thailand

Bisley Asia (Thailand) Co. Ltd.
Mahatun Plaza Building 18th Floor
888/186 Ploenchit Road
Lumpini, Pathumwan
Bangkok 10330
Thailand
Phone: +66 0 2689 6396
Fax: +66 0 2689 6394

Kuala Lumpur, Malaysia

Bisley Asia (M) Sdn Bhd
Co. Reg. No.:199201002123
(233627-U)
Suite 20-01 & 20-02B,
Level 20, The Pinnacle,
Persiaran Lagoon, 47500
Bandar Sunway, Subang Jaya Selangor,
Malaysia
Tel: +603-56244287/4289
Fax: +603-56244201

Dubai, United Arab Emirates

Bisley Chemicals Trading LLC
1802 B2B Office Tower
Business Bay
PO Box 9298
Dubai United Arab Emirates
Phone: +971 4 3310088
+971 4 3310111
Fax: +971 4 3310099

USA and Canada

Bisley International LLC
1790 Hughes Landing Boulevard
Suite 400
The Woodlands 77380 TX USA
Phone: +1 (844) 424 7539
Emergency telephone number:
+1 855 237 5573
Email: international@bisley.biz

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