

CAB-O-SIL® TS-720B FUMED SILICA

Product highlights

CAB-O-SIL TS-720B fumed silica is a medium surface area fumed silica which has been surface treated with polydimethylsiloxane (PDMS). This surface treatment results in hydrophobic silica with a very different performance than untreated silica.

Typical Product Properties

Product Properties	UOM	Values
BET Specific Surface Area	m ² /g	105 - 135
Carbon Content	%	4.8 - 6.0
325 Mesh Residue (44 micron)	%	0.5 max
Tamped Density	g/l	60 max
Loss on Heating*	%	1.0 max

* at the time of packaging



CAB-O-SIL TS-720B fumed silica is characterized by:

- ◆ High purity
- ◆ Aggregated structure
- ◆ Submicron particle size
- ◆ Low bulk density
- ◆ Hydrophobic surface chemistry

Key Applications

CAB-O-SIL TS-720B fumed silica is used for rheology control in a wide variety of adhesives, composite and coatings applications.

This product provides the following performance advantages in medium to high polarity systems:

- ◆ Thickening efficiency
- ◆ Sag resistance or high film build
- ◆ Anti-settling of pigments and fillers
- ◆ Shear-thinning rheological behavior
- ◆ Stable rheological performance over time
- ◆ Controls tribo charge and flowability of toner particles
- ◆ Improves water resistance properties
- ◆ Corrosion Resistance

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Epoxy Adhesives and Coatings

In epoxy adhesives and coatings, CAB-O-SIL TS-720B fumed silica provides good thickening efficiency, sag resistance (or film build) and anti-settling of pigments and fillers. Maximizes the adhesive performance in applications in automotive, aerospace, construction, electronics and flooring.

Polyurethane Adhesives and Coatings

In polyurethane adhesives and coatings, CAB-O-SIL TS-720B fumed silica provides the same efficient, stable rheology control as in epoxy systems. In addition, the hydrophobic surface of CAB-O-SIL TS-720B fumed silica resists moisture introduction into the system, retarding premature cross-linking of moisture cured systems.

Vinyl Ester Laminating Resins and Gel Coats

While untreated silicas are effective thickeners of unsaturated polyester resins, CAB-O-SIL TS-720B fumed silica is a more efficient, stable rheology control additive for higher polarity systems like vinyl ester laminating resins and gel coats.

Epoxy Structural Adhesives and Bonding Pastes

CAB-O-SIL TS-720B fumed silica provides excellent storage stability and anti-sag properties to the high strength epoxy structural adhesives in bonding paste for wind mills blades.

Silicone Greases and Cable Gels

CAB-O-SIL TS-720B fumed silica provides excellent rheology control, sag resistance and moisture resistance properties to the silicone greases and cable gels.

Toner Particles Free Flow

With silicone oil treatment, CAB-O-SIL TS-720B fumed silica stabilizes the surface tribo charge and provide free flow to toners particles.

Product form and logistics

- ◆ Product form: powder
- ◆ Regional availability: India
- ◆ Packaging options:
 - ◆ 10 kg 3-ply craft paper bag
 - ◆ 100 kg FIBCs

For information on product-specific storage conditions, please refer to the applicable Safety Data Sheet (SDS) available from your Cabot Sanmar representative.

The CAB-O-SIL name is registered trademark of Cabot Corporation.



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