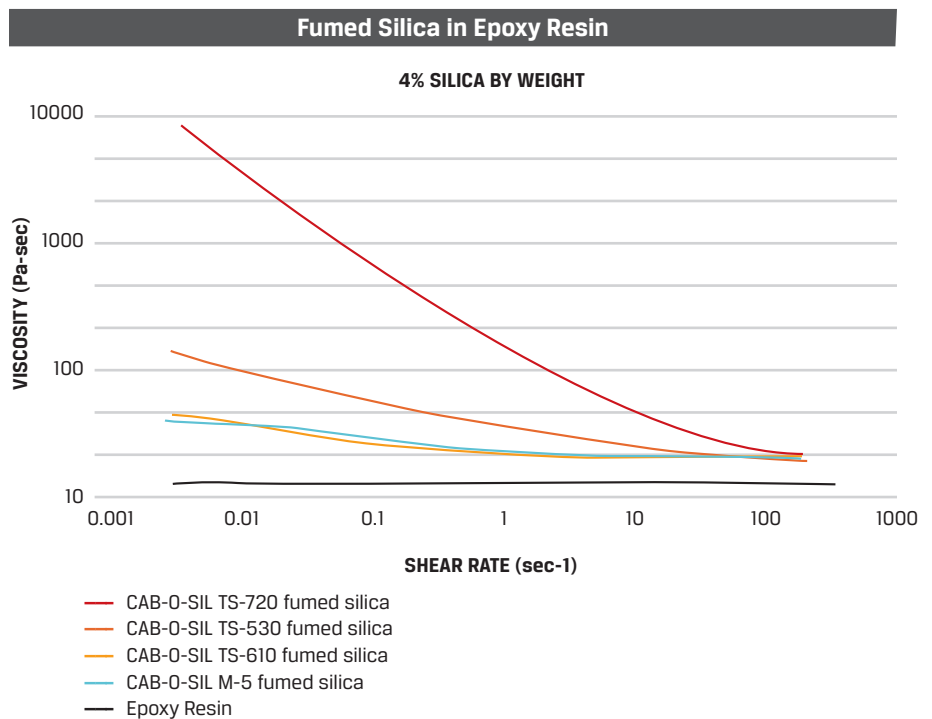
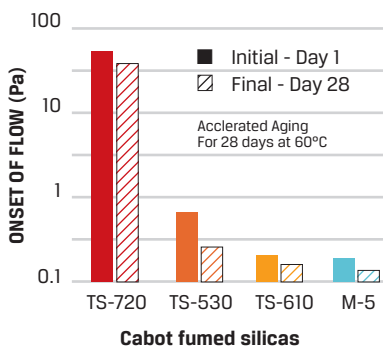


## CAB-O-SIL<sup>®</sup> TS-720 Fumed Silica

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

### CAB-O-SIL TS-720 Treated Silica

In comparison to an untreated silica such as CAB-O-SIL M-5 fumed silica and other treated silicas such as CAB-O-SIL TS-610 and CAB-O-SIL TS-530 fumed silicas, CAB-O-SIL TS-720 fumed silica provides very different performance in polar systems. The charts below demonstrate the efficient thickening and shear-thinning rheology provided by CAB-O-SIL TS-720 fumed silica in an epoxy resin. The sag resistance as measured by onset of flow of CAB-O-SIL TS-720 fumed silica exceeds that of CAB-O-SIL M-5 fumed silica and even the other treated silicas tested. After aging at 60°C for 28 days, the epoxy resin containing CAB-O-SIL TS-720 fumed silica maintained sag resistance (onset of flow) unlike the other silicas.



# CAB-O-SIL® TS-720 Fumed Silica

## Major Applications and Performance Features:

### Typical Applications

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

### Epoxy Adhesives and Coatings:

In epoxy adhesives and coatings, CAB-O-SIL TS-720 fumed silica provides good thickening efficiency, sag resistance (or film build) and anti-settling of pigments and fillers. For applications requiring storage stability, CAB-O-SIL TS-720 fumed silica is recommended.

### Polyurethane Adhesives and Coatings:

In polyurethane adhesives and coatings, CAB-O-SIL TS-720 fumed silica provides the same efficient, stable rheology control as in epoxy systems. In addition, the hydrophobic surface of CAB-O-SIL TS-720 fumed silica introduces very little moisture into these systems preventing 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-720 fumed silica is a more efficient, stable rheology control additive for higher polarity systems like vinyl ester laminating resins and gel coats.

### Performance Features

CAB-O-SIL TS-720 fumed silica 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

### Packaging Options:

CAB-O-SIL TS-720 fumed silica is packaged in multi-wall Kraft paper bags and flexible intermediate bulk containers (FIBC's). It is available in poly-shrouded units containing 18 x 10 lb. paper bags (net weight 180 lbs.) and 18 x 10 kg paper bags (net weight 180 kg) as well as in 150 kg FIBCs.

### Material Safety Data Sheet:

A material safety data sheet (MSDS) for this product may be obtained from your local Cabot representative or can be downloaded from [cabotcorp.com](http://cabotcorp.com)

### Product Sales Specifications:

Sales specifications for this product may be obtained by contacting a sales or technical service representative at the Cabot Corporation office in your region.



[cabotcorp.com](http://cabotcorp.com)

#### NORTH AMERICA

Cabot Corporation Business and Technical Center  
157 Concord Road  
Billerica, MA 01821-7001  
USA  
**TEL** +1 800 462 2313  
**FAX** +1 978 670 7035

#### SOUTH AMERICA

Cabot Latin American Division  
Rue do Paraíso, 148 - 5º andar  
04103-000, Sao Paulo, SP BRAZIL  
**TEL** +55 11 2144 6400  
**FAX** +55 11 3253 0051

#### EUROPE

Cabot Specialty Chemicals  
Interleuvenlaan 15 i  
3001 Leuven, BELGIUM  
**TEL** +32 16 39 24 31  
**TEL** +32 16 39 25 68  
**FAX** +32 16 39 24 44

#### MIDDLE EAST/AFRICA

Cabot Specialty Chemicals  
Jebel Ali Free Zone  
LOB 15, Office 424  
Dubai  
UNITED ARAB EMIRATES  
**TEL** +971 4 8871 800  
**FAX** +971 4 8871 801

#### ASIA PACIFIC

Cabot China Ltd.  
558 Shuangbai Road  
Shanghai 201108, CHINA  
**TEL** +86 21 5175 8800  
**FAX** +86 21 6434 5532

#### JAPAN

Cabot Specialty Chemicals, Inc.  
Sumitomo Chiba-Daimon Idg. 3F  
2-5-5 Shiba Daimon, Minato-ku, Tokyo 105-0012, JAPAN  
**TEL** +81 3 6820 0255  
**FAX** +81 3 5425 4500

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