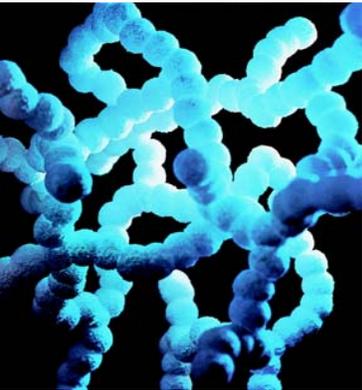


# CAB-O-SIL® TS-610



**CAB-O-SIL® TS-610** treated fumed silica is a high-purity, large particle size silica which has been treated with dimethyldichlorosilane. The treatment replaces many of the surface hydroxyl groups on the fumed silica with methyl groups. This renders the silica less hydrophylic, having very different properties from untreated silica.

## Product Form

Powder

## Typical Properties

B.E.T. Surface Area	125 m <sup>2</sup> /g
Carbon	0.85
pH (4% slurry; 1:1 v/v isopropanol/water)	> 4.0
Tamped Density	60 g/l
Loss on Heating*	< 0.5% max.
Specific Gravity	2.2 g/cm <sup>3</sup>
Wt. per gallon	18.3 lb
Refractive Index	1.46
X-ray Form	Amorphous
Average Particle (Aggregate) Length	0.2–0.3 microns

\*At time of packaging.

## Typical Applications

The unique properties of TS-610 treated fumed silica offer special benefits in many applications:

- The silica's low moisture content makes it usable without expensive drying when incorporated into moisture-sensitive systems.
- The hydrophobic nature of TS-610 allows it to be used in materials which are produced to protect ferrous substrates from corrosion or as moisture barriers. Also, the hydrophobic nature of the TS-610 renders systems more resistant to emulsification with water.
- TS-610 is an excellent free flow agent. The hydrophobic characteristic allows it to be especially useful in free flowing hygroscopic materials and in preventing clumping in these materials.
- TS-610 is a rheology control agent. It offers a different thixotropic response than a hydrophilic, untreated fumed silica and can offer improved flow and leveling characteristics.
- TS-610 is an excellent reinforcing filler. The reduced thickening behavior of TS-610 allows higher loadings for attainment of very high physical properties while still having a polymer system with a processible viscosity.





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## Packaging Options

CAB-O-SIL® TS-610 treated fumed silica is packaged in North America in 10-lb multi-wall Kraft bags and is available in 24 x 10-lb poly-shrouded units. Specific information regarding standard and custom packaging may be obtained by contacting a sales service representative at the Cabot Corporation office in your region.

## MSDS

A Material Safety Data Sheet for this product may be obtained by contacting the Cabot Corporation office in your region.

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