

CAB-O-SIL[®] TS-530 Fumed Silica



CAB-O-SIL TS-530 fumed silica has a surface that has been treated with hexamethyldisilazane (HMDZ). This treatment replaces hydroxyls on the surface of the silica, resulting in increased hydrophobicity and very different performance features than untreated silica.

Product Characteristics

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

Performance Features

CAB-O-SIL TS-530 fumed silica can enable the following performance advantages:

- ◆ Rheology control
- ◆ Sag resistance or high film build
- ◆ Anti-settling of pigments and fillers
- ◆ Dispersion improvement

Typical Applications

Ink, Coating and Adhesive Systems

In medium to high polarity inks, coatings and adhesives applications, CAB-O-SIL TS-530 fumed silica can enable low viscosity build with good sag resistance and anti-settling of pigments and fillers. This combination of properties makes CAB-O-SIL TS-530 fumed silica an excellent choice for use in highly filled systems such as corrosion resistant coatings. In these highly filled systems, CAB-O-SIL TS-530 fumed silica can promote good anti-settling of the filler without excessive unwanted increase in viscosity.

In inks and coatings applications where surface appearance is a key performance indicator, CAB-O-SIL TS-530 fumed silica can provide a good balance of sag resistance, flow and leveling, promoting a smooth surface for the end-product.

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Silicone Rubber

In HTV and liquid silicone rubber applications, CAB-O-SIL TS-530 fumed silica promotes strong reinforcement. Because the silica surface is treated, further modification of the silica surface is not necessary in order to prevent crepe hardening. Compatibility of the CAB-O-SIL TS-530 fumed silica's surface treatment with silicones enables faster incorporation and dispersion than with an untreated fumed silica.

Packaging Options

CAB-O-SIL TS-530 fumed silica is packaged in 10 lb. and 5 kg multi-wall paper bags and is available in 24 x 10 lb. (net weight 240 lbs.) and 24 x 5 kg (net weight 120 kg) poly-shrouded units.

Material Safety Data Sheet

A Material Safety Data Sheet for this product can be downloaded from our website, www.cabotcorp.com.

Product Sales Specifications

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



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