

## 23 Thixotropic Silica



**Overview:** #23 is a fine grade fumed silica thickening agent similar to Cab-O-Sil and is added to resin systems to prevent run-off and sags on vertical surfaces. Cab-O-Sil is a registered trademark of Cabot Corporation. #23 is a very fine, micron-sized synthetic silica for mixture with polyester and epoxy resins to increase thixotropy without loss of physical properties.

Container sizes are as follows:  
 6 oz. (1/2 Gallon)  
 7 lbs. (Carton)  
 30 lbs. (bag)

**Features & Benefits:**

- General purpose, high performance anticaking, free-flow, and carrying agent for food and industrial applications.
- Combination of high pore volume with a large internal surface area makes it extremely efficient for these applications
- Strong affinity for moisture and also for organic based liquids
- Can absorb up to two and a half times its own weight of a liquid
- Excellent compatibility with active ingredients
- Thixotropic Silica fulfils the requirements of the silicon dioxide monograph in the Food Chemicals Codex

**Typical Product Properties:**

**Product Specification:**

Property	Unit	Specification	Test method
Loss of Drying, 105°C	%	7.0 max	GRACE 393070
Loss of Ignition	%	8.5 max	GRACE 002170
PH (5% aq. Suspension)		6.0 - 8.3	GRACE 076000
Heavy Metals	ppm	10 max	GRACE 368000
Lead as Pb	ppm	5 max	GRACE 369000
Arsenic	ppm	3 max	GRACE 367000
Silica as SiO <sub>x</sub> (D.B.)	%	99.6 min	GRACE 003000

\*Not for specifications purposes

**Typical Properties:**

Property	Unit	Typical Value	Test method
Oil Absorption	g/100g	280	GRACE 216020
Apparent Bulk Density	g/c	0.07	GRACE 366000
Compacted Bulk Density	g/c	0.10	GRACE 500060
Average Particle Size	Micron	6.0	GRACE 496190
Malvern Mastersizer 100 mm lens			

\*Not for specifications purposes

**Mixing Directions:**

Mix in the ratio of 1 part by volume #23 to 2 parts resin for general use.

Mix 4% by weight for vertical or overhead coatings of resin to reduce runs and sags of brush work or approximately 1 part by volume #23 to 3 parts resin.

**Storage:**

Storage in a dry warehouse is recommended. Open packages should be resealed to prevent contamination of the product.

**Safety & Handling:**

# 23 Thixotropic Silica contains ingredients that could be harmful if mishandled. Contact with skin and eyes should be avoided and necessary protective equipment and clothing should be worn. Individuals should wash with soap and water before eating, drinking, or using toilet facilities. Individuals should observe conditions of good industrial hygiene and safe working practices. For more detailed instructions on handling, please see the MSDS sheet.