

CAB-O-SIL® M-5



CAB-O-SIL® M-5 untreated fumed silica is a synthetic, amorphous, colloidal silicon dioxide that is generally regarded as unique in industry because of its unusual particle characteristics. CAB-O-SIL fumed silica's extremely small particle size, its enormous surface area, its high purity, and its chain-forming tendencies set it apart in a class of its own. CAB-O-SIL fumed silica is a light, fluffy powder that is white in appearance and is used in many applications and a variety of industries.

Product Form

Powder

Typical Properties

B.E.T. Surface Area	200 m ² /g
pH (4% aqueous slurry)	3.7–4.3
325 Mesh Residue (44 microns)	0.02% max.
Bulk Density* (Pour Density)	3.0 lb/ft ³ max. (50 g/l Tap Density)
Loss on Heating*	< 1.5% max.
Loss on Ignition* (@ 1000°C)	< 2 wt. %
Specific Gravity Wt. per gallon	2.2 g/cm ³ 18.3 lb
Refractive Index	1.46
X-ray Form	Amorphous
Assay (% SiO ₂)	> 99.8
Oil Adsorption	~350 g/100 g oil
Average Particle (Aggregate) Length	0.2–0.3 microns

*At time of packaging.



Functions

Rheology Control
Reinforcement
Free Flow
Suspension
Adsorbant

Applications

Adhesives & Sealants
Coatings
Composites
Cosmetics
Foods
Inks
Pharmaceuticals

Packaging Options

CAB-O-SIL® fumed silicas are packaged in color-coded, multi-wall Kraft paper bags. Grade M-5 is packaged in North America in 10-lb bags and in Europe in 10-kg bags. The bags are unitized and sized to provide product protection, facilitate efficient handling, and maximize payloads. 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 or visiting our website.

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