



CAB-O-SIL[®] M-5 Untreated Fumed Silica

Non-controlled document

CAB-O-SIL[®] M-5 untreated fumed silica is a high-purity silica manufactured in Tuscola, Illinois U.S.A. The specifications and typical properties of this product are shown below.

Specifications

Values provided on every Certificate of Analysis.

Property	Specification Range	Cabot Test Method	Industry Standard
B.E.T. Surface Area	200 ± 25 m ² /g	CTM-203	based on ASTM D4820-97
pH (4% aqueous slurry)	3.7–4.3	CTM-100	based on ASTM 70-77
325 Mesh Residue (44 microns)	0.02% max.	CTM-120	based on ASTM D1514
Bulk Density*	3.0 lbs/ft ³ max.	CTM-210	based on ASTM D1513
Loss on Heating*	1.5% max.	CTM-230	based on ASTM D1509

Typical Properties

Property	Value
Loss on Ignition* (@ 1000°C)	< 2 wt. %
Specific Gravity	2.2 g/cm ³
Wt. per gallon	18.3 lbs
Refractive Index	1.46
X-ray Form	Amorphous
Assay (% SiO ₂)	> 99.8
Oil Adsorption	~350 (M-5) g/100 g oil
Average Particle (Aggregate) Length	0.2–0.3 microns

*At time of packaging.

Test methods are available up on request.

The data under **Typical Properties** are based on studies made in Cabot Corporation laboratories and are believed to be reliable. We do not guarantee that the products described herein will conform with the data set forth under **Typical Properties**.

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