

## 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 <sup>2</sup> /g                               |
| pH (4% aqueous slurry)              | 3.7–4.3   |
| 325 Mesh Residue (44 microns)       | 0.02% max.  |
| Bulk Density*<br>(Pour Density)     | 3.0 lb/ft <sup>3</sup> max.<br>(50 g/l Tap Density) |
| Loss on Heating*                    | < 1.5% max.   |
| Loss on Ignition* (@ 1000°C)        | < 2 wt. %   |
| Specific Gravity<br>Wt. per gallon  | 2.2 g/cm <sup>3</sup><br>18.3 lb                    |
| Refractive Index                    | 1.46  |
| X-ray Form                          | Amorphous   |
| Assay (% SiO <sub>2</sub> )         | > 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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