

CAB-O-SIL® M-5F



CAB-O-SIL M-5F food-grade silicas are high-purity materials that can act as carriers, flavor masking, anti-settling, thickening, anti-caking, and fat substitution additives in food applications.

CAB-O-SIL M-5F food-grade fumed silicas are characterized by:

- High purity, food-grade silica quality;
- Tasteless, colorless, odorless;
- Hydrophilic surface;
- Low bulk density.

Application Information

Carrier, Flavor Masking Agent

CAB-O-SIL food-grade fumed silicas adsorb liquids to produce dry powders that can be easily mixed with other solid ingredients. At higher concentrations, these grades can act as flavor masking agents.

Microencapsulation

CAB-O-SIL food-grade fumed silicas can encapsulate volatile compounds, such as flavors, reducing evaporation rates.

Spray Drying Aid

CAB-O-SIL food-grade fumed silicas can reduce clogs in the spray dryer atomizer, deliver higher powder recovery, and increase throughput by facilitating lower spray dryer outlet temperatures.

Lipid Substitution

CAB-O-SIL food-grade fumed silicas can promote the substitution of fat contained in foods by:

- a) facilitating a more homogeneous lipid distribution to enhance the fat's effectiveness; and
- b) acting as an effective stabilizer of Pickering emulsions that replace fat fractions.

Thickening, Anti-Settling, and Emulsification

CAB-O-SIL food-grade fumed silicas are effective thickening, emulsification, gelling, and anti-settling agents with low sensitivity to temperature and pH.

Free Flow, Transparency, and Storage Stability

CAB-O-SIL food-grade fumed silicas act as a spacer and moisture adsorbent, reducing lump formation and crystallization to facilitate free flow, exact dosing, and storage stability.

CAB-O-SIL[®] M-5F

Performance Characteristics

FEATURE	CAB-O-SIL M-5F FUMED SILICA	CAB-O-SIL EH-5F FUMED SILICA
Adsorption	***	*****
Microencapsulation	***	*****
Dispersability	*****	***
Anti-setting	***	***
Anti-caking	***	***
Transparency	***	*****
Surface Area	200 m ² /g	380 m ² /g

Performance: ***** best *** good

Packaging Options

CAB-O-SIL M-5F fumed silicas are packaged in multi-wall Kraft paper bags and in poly-shrouded units containing 18 x 10 kg paper bags (180 kg net weight).

Material Safety Data Sheet

A Material Safety Data Sheet for these products may be obtained by contacting the Cabot Corporation office in your region or can be downloaded from our website at <http://www.cabot-corp.com/Silicas-And-Aluminas/Food>

Regulatory Compliance

A regulatory compliance information package may be obtained by contacting the Cabot Corporation office in your region or can be downloaded from our website at <http://www.cabot-corp.com/Silicas-And-Aluminas/Food>

Product Sales Specifications

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

CABOT
cabotcorp.com



Cabot Sanmar Limited
9, Cathedral Road
Chennai 600 086
INDIA
TEL +91 44 2812 8500
silica@sanmargroup.com

NORTH AMERICA
Cabot Corporation Business
and Technical Center
157 Concord Road
Billerica, MA 01821-7001
USA
TEL +1 800 462 2313
FAX +1 978 670 7035

SOUTH AMERICA
Cabot Latin American
Division
Rue do Paraíso, 148 -
5º andar
04103-000, São Paulo,
SP BRAZIL
TEL +55 11 2144 6400
FAX +55 11 3253 0051

EUROPE
Cabot Specialty Chemicals
Interleuvenlaan 15 i
3001 Leuven,
BELGIUM
TEL +32 16 39 24 31
TEL +32 16 39 25 68
FAX +32 16 39 24 44

MIDDLE EAST/AFRICA
Cabot Specialty Chemicals
Jebel Ali Free Zone
LOB 15, Office 424
Dubai
UNITED ARAB EMIRATES
TEL +971 4 8871 800
FAX +971 4 8871 801

ASIA PACIFIC
Cabot China Ltd.
558 Shuangbai Road
Shanghai 201108,
CHINA
TEL +86 21 5175 8800
FAX +86 21 6434 5532

JAPAN
Cabot Specialty Chemicals, Inc.
Sumitomo Chiba-Daimon Bldg. 3F
2-5-5 Shiba Daimon,
Minato-ku, Tokyo 105-0012,
JAPAN
TEL +81 3 6820 0255
FAX +81 3 5425 4500

The data and conclusions contained herein are based on work believed to be reliable, however, Cabot cannot and does not guarantee that similar results and/or conclusions will be obtained by others. This information is provided as a convenience and for informational purposes only. No guarantee or warranty as to this information, or any product to which it relates, is given or implied. This information may contain inaccuracies, errors or omissions and CABOT DISCLAIMS ALL WARRANTIES EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AS TO (i) SUCH INFORMATION, (ii) ANY PRODUCT OR (iii) INTELLECTUAL PROPERTY INFRINGEMENT. In no event is Cabot responsible for, and Cabot does not accept and hereby disclaims liability for, any damages whatsoever in connection with the use of or reliance on this information or any product to which it relates.

CAB-O-SIL is a registered trademark of Cabot Corporation.

©2013 Cabot Corporation.
10/2013