

CAB-O-SIL[®] M-5F fumed silica



Product Form

- ◆ Product form: powder
- ◆ Regional availability: global
- ◆ Packaging option:
 - ◆ 10kg multi-wall kraft paper bags
 - ◆ poly-shrouded units containing 18 x 10 kg paper bags (180 kg net weight)

PRODUCT HIGHLIGHTS

CAB-O-SIL M-5F food-grade fumed silica is a high-purity material that can act as a carrier as well as a flavor masking, anti-settling, thickening, anti-caking, and fat substitution additive in food applications.

CAB-O-SIL M-5F food-grade fumed silica has the following characteristics:

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

KEY APPLICATIONS

CARRIER, FLAVOR MASKING AGENT

CAB-O-SIL M-5F food-grade fumed silica 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 M-5F food-grade fumed silica can encapsulate volatile compounds, such as flavors, reducing evaporation rates.

SPRAY DRYING AID

CAB-O-SIL M-5F food-grade fumed silica 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 M-5F food-grade fumed silica can promote the substitution of fat contained in foods by facilitating a more homogeneous lipid distributors to enhance the fat's effectiveness and acting as an effective stabilizer of Pickering emulsions that replace fat fractions.

THICKENING, ANTI-SETTLING AND EMULSIFICATION

CAB-O-SIL M-5F food-grade fumed silica is an effective thickening, emulsification, gelling, and anti-settling agent with low sensitivity to temperature and pH.

FREE FLOW, TRANSPARENCY AND STORAGE STABILITY

CAB-O-SIL M-5F food-grade fumed silica acts as a spacer and moisture adsorbent, reducing lump formation and crystallization to facilitate free flow, exact dosing, and storage stability.

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PERFORMANCE CHARACTERISTICS

FEATURE	CAB-O-SIL M-5F FUMED SILICA	CAB-O-SIL EH-5F FUMED SILIC
Adsorption	***	*****
Microencapsulation	***	*****
Dispersibility	*****	***
Anti-settling	***	***
Anti-caking	***	***
Transparency	***	*****
Surface area	200 m ² /g	380 m ² /g

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

The data in the table above are typical test values intended as guidance only and are not product specifications. Product specifications are available upon request from your Cabot representative.

Regulatory compliance

A regulatory compliance information package may be obtained by contacting your Cabot representative.

For information on product-specific storage conditions, please refer to the applicable Safety Data Sheet (SDS) available from your Cabot representative or at cabotcorp.com/contact

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