

# CAB-O-SIL<sup>®</sup> EH-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 EH-5F food-grade fumed silica is a high-purity material that can act as a carrier, flavor masking, anti-settling, thickening, anti-caking, and fat substitution additive in food applications.

CAB-O-SIL EH-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 EH-5F food-grade fumed silica adsorbs liquids to produce dry powders that can be easily mixed with other solid ingredients. At higher concentrations, this grade can act as a flavor masking agent.

#### MICROENCAPSULATION

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

#### SPRAY DRYING AID

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

#### FREE FLOW, TRANSPARENCY AND STORAGE STABILITY

CAB-O-SIL EH-5F food-grade fumed silica act 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
<b>Adsorption</b>	***	*****
<b>Microencapsulation</b>	***	*****
<b>Dispersibility</b>	*****	***
<b>Anti-settling</b>	***	***
<b>Anti-caking</b>	***	***
<b>Transparency</b>	***	*****
<b>Surface area</b>	200 m <sup>2</sup> /g	380 m <sup>2</sup> /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](http://cabotcorp.com/contact)

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