

FUMED METAL OXIDES



**CABOT**

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**CAB-O-SIL® CT-1111G Treated Fumed Silica  
for Powder Coatings**





## CAB-O-SIL® CT-1111G treated fumed silica for Powder Coatings

CAB-O-SIL® CT-1111G is a fluidizing additive specifically designed for powder coatings applications and other powders requiring enhanced free flow and fluidization performance. In comparison to other fumed aluminas and silicas, CT-1111G provides excellent free-flow and fluidization at very low loadings offering the best balance of performance and cost.

CAB-O-SIL CT-1111G is designed for use as a post-additive. Unlike other fluidization and free-flow additives which must be added at the grinding or pulverization process, CT-1111G can be added after these processes without compromising surface appearance of the cured coating. In addition, post-addition allows tighter control of the fluidization additive loading in the formulation. CT-1111G is easily incorporated into powder coatings and other powders.

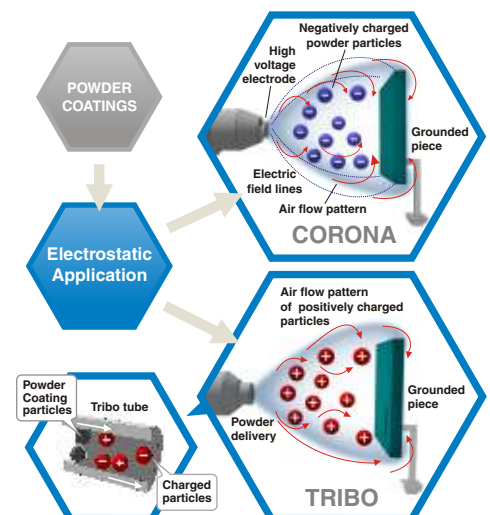
The hydrophobic surface treatment on CAB-O-SIL CT-1111G reduces the blocking or caking of powder coatings and other powders during storage in humid environments.

- **Easy to use post-additive; can be added after grinding/pulverization process without compromising coating appearance**
- **Highly efficient; provides excellent fluidization and free-flow at very low loadings**
- **Increases productivity; improves transfer efficiency during application of powder coating**
- **Cost effective; highest performance at lowest cost in use**

## Powder Coatings

Powder coatings systems applied electrostatically utilize flow additives to optimize performance during spraying and handling and to increase the stability of the powder coating material during storage.

CAB-O-SIL fumed silicas and SpectraI™ fumed aluminas provide superior fluidization and free-flow for powder coatings formulations as well as improving storage stability. Fumed alumina and both hydrophilic and hydrophobic fumed silicas are used in corona coating applications. Hydrophobic fumed silicas offer improved storage stability in humid environments. In tribo-coating application, SpectraI fumed aluminas improve tribo-charging of the powder coating while also providing fluidization and free flow.



# CAB-O-SIL CT-1111G Treated Fumed Silica

## Typical Properties

BET surface area	~ 225 m <sup>2</sup> /g
Carbon content	~ 3.5 %
Mean agglomerate size	~ 10 microns

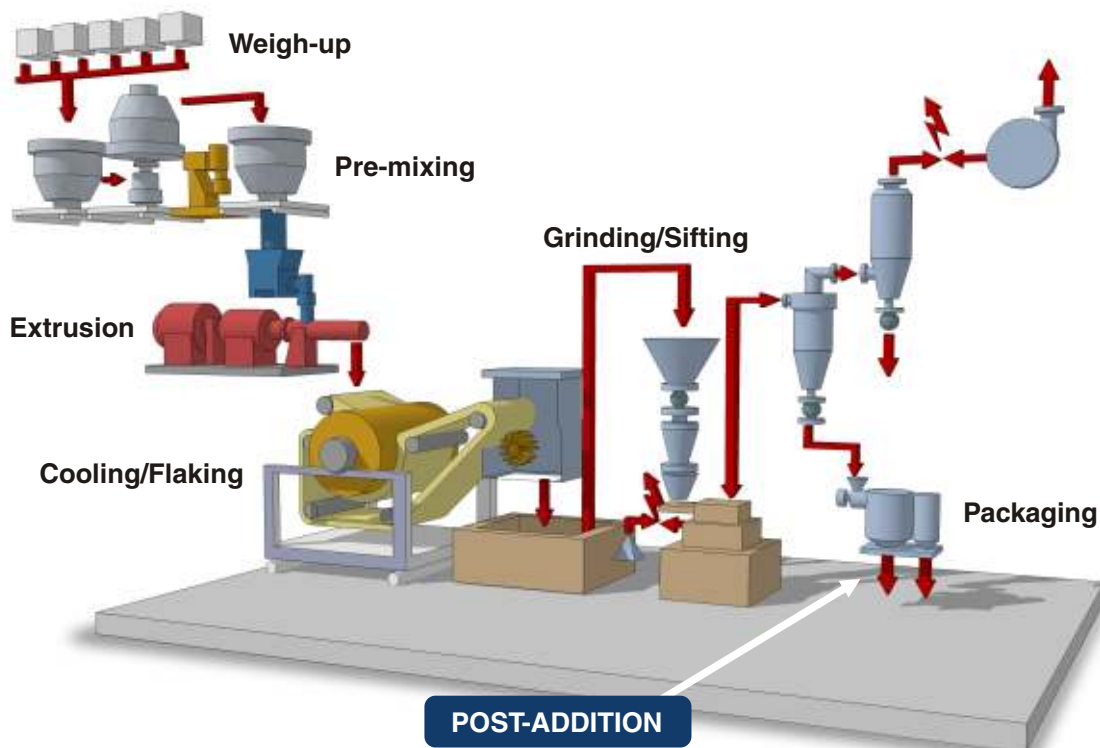
BENEFITS

- EXCELLENT FLUIDIZATION AND FREE-FLOW PROPERTIES
- ANTI-BLOCKING / ANTI-CAKING
- STORAGE STABILITY
- BETTER TRANSFER EFFICIENCY
- POST ADDITION

## Fumed Silica and Alumina Selection Guide

PRODUCT	PRODUCT FEATURES		BENEFITS IN POWDER COATINGS					Recommended Point of Addition
			Fluidization Free Flow	Antiblocking	Humidity Stability	Recommended for		
	Electrostatic Charge	Surface Modification				Tribocharge Spraying	Corona Spraying	
<b>SpectrAl 100</b> fumed alumina	Positive	No Hydrophilic	Good	Good	Good	Yes	Yes	At or after grinder or pulverization
<b>CAB-O-SIL M-5</b> untreated fumed silica	Negative	No Hydrophilic	Good	Good	Fair	No	Yes	At grinder or pulverization
<b>CAB-O-SIL CT-1221</b> treated fumed silica	Negative	Yes Hydrophobic	Excellent	Excellent	Excellent	No	Yes	At grinder or pulverization
<b>CAB-O-SIL CT-1111G</b> treated fumed silica	Negative	Yes Hydrophobic	Excellent	Excellent	Excellent	No	Yes	<b>At or after</b> grinder or pulverization

### CAB-O-SIL CT-1111G used as a post-added additive, after pulverization



# Cabot in the World

With business extending over 20 countries, Cabot has 6 fumed metal oxides manufacturing facilities in the world, besides research and development facilities focused in developing new products and technology and bringing new solutions to our customers.



## Technical Centers:

- Billerica, MA - USA
- Rheinfelden - Germany
- Shanghai - China

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