



FLO-GARD™ SAC

Flow Conditioning Silica

FOOD

FLO-GARD™ SAC silica is a synthetic silicon dioxide with superior capabilities for optimizing free-flowing properties in powdered food ingredients. Uniform shape and size allow *Flo-Gard* SAC silica to blend easily and thoroughly at reduced dust levels. *Flo-Gard* SAC silica is a versatile, cost-effective alternative to other flow conditioners, because it provides equivalent anticaking efficiency at lower loadings.

Properties and Characteristics

Flo-Gard SAC silica is a unique precipitated silica. A controlled manufacturing process produces a uniform particle size that promotes free-flowing properties when added to powdered food ingredients. *Flo-Gard* SAC silica is a highly absorptive, pure white, free-flowing powder. It is amorphous in structure, and has a neutral pH. *Flo-Gard* SAC silica is also odorless and tasteless with a typical median particle size of 45 microns by Laser Diffraction.



Applications

Granulated salt
Chili powder
Paprika and other spices
Guar gum
Seasoning powders
Powdered drink mixes



Flo-Gard SAC – Typical Properties

Particle Size, μm	45
DOA Oil Absorption Number, mL/100g	305
pH	6.9
Moisture (as packaged), Wt.%	5.0
Residual salt (as Na_2SO_4), Wt.%	2.0 maximum

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Samples

Samples are available per request from Customer Service.

Storage

To ensure product integrity, it is recommended that our silica products be stored under dry, clean conditions and protected against exposure to other substances. Since silica may pick up moisture, we also recommend that products that are stored for more than one year from the date of manufacture be re-tested for moisture content. There is no shelf life limit when stretch-wrapped palletized units or bags are kept under the above stated conditions. Pallets should not be double-stacked.

Safety and Health Effects

We recommend that, before use, anyone using or handling this product thoroughly read and understand the information and precautions on the label, as well as in other product safety publications such as the Safety Data Sheet. Any health hazard and safety information contained herein should be passed on to your customers or employees, as the case may be. The products mentioned herein can be hazardous if not used properly. Like all potentially hazardous materials, this product must be kept out of the reach of children.



Efficient Blending, Reduced Dust Levels

Flo-Gard SAC silica blends easily. Because of its very fine, uniform particle size, it requires no pre-blending. It can be metered directly into the process stream, mixer or spray dryer. Using a test method developed by PPG to measure product dust levels, *Flo-Gard* SAC silica has been shown to be a superior performing flow-aid. In some spice applications, *Flo-Gard* SAC silica was shown to generate lower dust levels than those applications containing equal loadings of competitive anticaking agents such as sodium aluminosilicate.

High Absorption

Flo-Gard SAC silica offers significant cost savings since it provides equivalent anti-caking efficiency at lower loadings compared to many competitive alternatives such as sodium aluminosilicate. *Flo-Gard* SAC is effective across a wide variety of applications, allowing flow conditioner inventories to be reduced.

Product Safety and Regulatory Information

For the latest safety and regulatory information, please reference the product Safety Data Sheet and Global Product Safety and Regulator Information Sheet available at www.ppgsilica.com/SDS.

Packaging

Standard packaging includes small bags and Flexible Intermediate Bulk Containers (FIBCs). Bags are unitized for shipping on pallets which are stretch wrapped with clear plastic film. FIBCs are single or double stacked on wood pallets. Please consult with customer service or your sales representative regarding additional packaging options including custom package sizes and bulk shipments.

Visit www.ppgsilica.com for more information.

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