



FLO-GARD™ SP

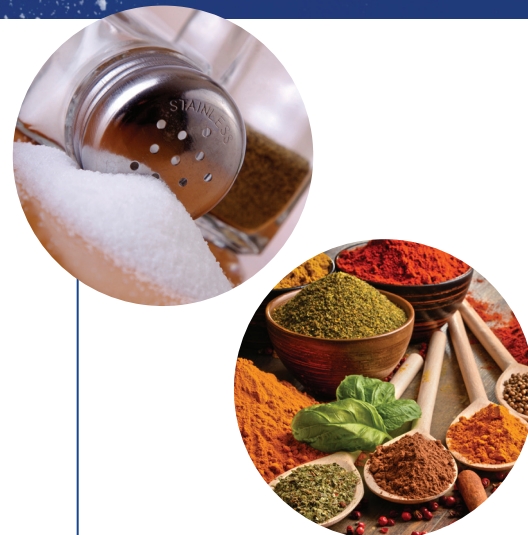
Flow Conditioning Silica

FOOD

FLO-GARD™ SP 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* SP silica to blend easily and thoroughly at reduced dust levels. *Flo-Gard* SP 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 SP 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* SP silica is a highly absorptive, pure white, free-flowing powder. It is amorphous in structure, and has a neutral pH. *Flo-Gard* SP 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 SP – Typical Properties

Particle Size, µm	45
DOA Oil Absorption Number, mL/100g	275
pH	6.9
Moisture (as packaged), Wt.%	5.0
Residual salt (as Na ₂ SO ₄), Wt.%	2.0 maximum

Samples

Samples are available per request from Customer Service.

Storage

To ensure product integrity, PPG recommends 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 SP 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* SP silica has been shown to be a superior performing flow-aid. In some spice applications, *Flo-Gard* SP silica was shown to generate lower dust levels than those applications containing equal loadings of competitive anticaking agents such as sodium aluminosilicate.

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.

High Absorption

Flo-Gard SP 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* SP is effective across a wide variety of applications, allowing flow conditioner inventories to be reduced.

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.

USA
PPG Silica Products
440 College Park Drive
Monroeville, PA 15146 USA

Customer Service: 1-800-243-6745
Technical Service: 1-800-764-7369
E-mail: silicacustserv@ppg.com

EUROPE
PPG Delfzijl Plant
P.O. Box 181
9930 AD Delfzijl, The Netherlands

Customer Service: +31-596-676710
Technical Service: +31-596-676710
E-mail: csdelfzijl@ppg.com

