



FLO-GARD™ 233

Free-Flow and Carrier Silica

FOOD AND FEED

FLO-GARD™ 233 silica is a synthetic, white, amorphous, precipitated silicon dioxide powder. *Flo-Gard* 233 silica is designed to work effectively as a carrier for various liquid chemicals, as a flow-aid and anticaking agent.

Properties and Characteristics

Flo-Gard 233 silica is an absorptive, odorless, white, precipitated, powder with a typical median particle size of 18 microns by Laser Diffraction. *Flo-Gard* 233 silica is designed to carry high levels of active ingredients. This combination of properties makes *Flo-Gard* 233 silica an excellent carrier product. *Flo-Gard* 233 silica has a typical N₂ BET-5 point surface area of 135 m²/g. The neutral pH of *Flo-Gard* 233 silica makes it compatible with a variety of liquid ingredients.



Applications

- Flavors/Flavorings
- Seasonings
- Animal feed
- Animal feed supplements



Flo-Gard 233 – Typical Properties

Particle Size, µm	18
DOA Oil Absorption Number, mL/100g	200
pH	6.9
Moisture (as packaged), Wt.%	5.0
Residual salt (as NaCl), Wt.%	2.5 maximum

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Samples

Samples are available upon 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

PPG Industries recommends 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.



High Absorption

Flo-Gard 233 silica is designed as a small particle-sized carrier, that can be used to convert liquids into dry mix concentrates, providing reproducible loadings up to 60 percent.

Typical Applications

Flo-Gard 233 silica can be used in any application to convert liquids into easy-to-handle products for both agricultural and rubber chemicals. Agricultural applications include uses in pesticides and herbicides, and as a plant dusting agent to prevent sun scalding. Due to its residual NaCl salt content, it is compatible with a number of products that are used in animal feed applications as a carrier or flow-aid. Industrial applications include elastomeric resins and antioxidants.

Product Safety and Regulatory Information

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

Packaging

Standard packaging as follows:

Multi-wall paper	44 lb (20 kg) net weight
FIBC	750 lb (340 kg) net weight

Bags are unitized for shipping on pallets which are stretch wrapped with clear plastic film. Please consult 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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