



Flo-Gard™ SC-72

Silica Carrier Product

Flo-Gard™ SC-72 is a synthetic, white, amorphous silicon dioxide spray dried product, designed as a highly absorptive carrier. Flo-Gard™ SC-72 is a precipitated silica with excellent free-flowing characteristics. Flo-Gard™ SC-72 is also a cost effective carrier due to its high bulk density.

Typical Properties for Flo-Gard SC-72

DBP Oil Absorption, ml/100g	275
Moisture, as packaged, Wt%	5.0
pH	6.7
Residual salt (as NaCl), Wt%	2.5 maximum
SiO ₂ Hydrate, %	87.0 Minimum

Registration Numbers

CAS No. 112926-00-8	Synthetic Precipitated Amorphous Silica
CAS No. 7631-86-9	TSCA Chemical Substance Inventory (SiO ₂)
231-545-4	European EINECS

Flo-Gard™ SC-72 Properties and Characteristics

Flo-Gard™ SC-72 is a white, odorless, free-flowing silica product consisting of a mixture of large beads and powder. This product is Kosher approved for Passover and year-round use. Flo-Gard™ SC-72 has a N₂ BET-1 surface area of 165 m²/g and a neutral pH. These properties make it compatible with a variety of liquid ingredients. It is manufactured under rigid process control, resulting in a consistent product, an important quality in obtaining uniform carrying capacity.

High Absorption

Flo-Gard™ SC-72 is designed as a carrier to convert liquids into free-flowing, dry mix concentrates, providing reproducible loadings up to 75 percent. Due to its unique structure, liquid loading can be accomplished much more quickly in a mixer without the need for intense mixing or the use of “choppers.” With a average particle size of 250 microns, by Laser Diffraction, Flo-Gard™ SC-72 is manufactured to be uniform, containing low levels of minus 200-mesh fraction particles.

Cost Effectiveness

Flo-Gard™ SC-72 has a typical Bulk Density of 185 grams per liter, which is greater than that of most diatomaceous earth based products. This allows for more efficient mixing and packaging, and lower transportation costs for the Flo-Gard™ SC-72 product as well as for the dry mix concentrates manufactured with Flo-Gard™ SC-72.

Potential Applications

Flo-Gard™ SC-72 can be used for carrying a variety of active ingredients including animal feed supplements such as nutrients and mold inhibitors, flavors, rubber chemicals, and agricultural chemicals. It can be used in virtually any application to convert liquids into easy-to-handle free-flowing dry mix concentrates such as : propionic acid, choline chloride, vitamin E acetate, elastomeric resins, processing oils, and antioxidants.

Packaging of Flo-Gard™ SC-72

Net weight

40 pounds (18.1 Kg)
575 pounds (261 Kg)

Bag Construction

multi-walled Kraft paper bags
Flexible Intermediate Bulk Container (FIBC)

Bags are unitized for shipping on pallets which are stretch wrapped with clear plastic film. FIBC's are double stacked on wood pallets. Shipments can be made in truckloads or carloads as well as in bulk rail hopper cars, and bulk trucks from the PPG Silicas Plant in Lake Charles, LA.

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 silicas may pick up moisture we also recommend that products that are stored more than one year, from 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.

Safety and Health Effects



PPG Industries Inc. is committed to safe handling of chemicals at every step of the process, from manufacturing and distribution through education of the end user. Our participation in the American Chemistry Council's *Responsible Care*® Program is evidence of our commitment to the health, safety and welfare of our employees and the industry. PPG Industries Inc. recommends thoroughly reading and understanding the product labels, Material Safety Data Sheets, and other safety information about the product prior to use or handling. Product health and safety information should be made available to your employees and customers.

Service and Samples

PPG's Technical Service Specialists are available for consulting on the use, handling and storage of Flo-Gard™ SC-72 .

Gallon containers and bag-size samples are available upon request from Technical Service.



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