



MG Glass Powders

Technical Data

Description

MG Glass powders are made from 100% recycled glass in a low-iron processing environment. They provide a clean, white-colored material that is specially selected for multiple applications as mineral fillers and as a fluxing powder for white ceramics. X-ray diffraction and scanning electron microscopy confirm that the MG Glass powders are fully amorphous and contain no crystalline silica.

Vitro Minerals' unique processing system provides consistent product quality and uniform particle size distribution for two grades, **MG-325** and **MG-400**, with finenesses and brightness covering a range of potential user requirements.

Typical Chemical and Physical Properties

NOT FOR SPECIFICATION PURPOSES

Chemical Composition: SiO₂ 69-74%; Al₂O₃ 0-3%; Fe₂O₃ 0-0.2%; CaO 5-14%; MgO 0-6%; Na₂O+K₂O 10-18%; Others 0-5%; LOI <0.1%. These oxides are combined in an amorphous (non-crystalline) state in a silicate glass.

	MG-325	MG-400	Test Method
Specific Gravity	2.6	2.6	ASTM C127
Bulk Density, lb/ft ³	55	50	ASTM C127
% passing 325 mesh	>90	>99	ASTM C136
pH	10-11	10-11	AFS 113-87S
Color	Ultra White	White	
Brightness	90-93	88-90	Tappi
Hardness – Mohs	5.5	5.5	Mohs Scale
Free moisture, %	<0.5	<0.5	ASTM C566

Product Information/Customer Service

Phone: 678-729-9333; Fax: 678-750-0105

Email: technicalsales@vitrominerals.com

Standard Package: 50-lb bags, 2,800 lbs/pallet, 40 x 48 pallet, shrinkwrapped; 2,500-lb supersacks.

FOB plants Tennessee

Disclaimer: The statements in this bulletin are based on data which is believed to be reliable, and is offered in good faith to be applied accordingly to the user's best judgment. Since operating conditions at customer's sites are beyond our control, Vitro Minerals will not assume responsibility for the accuracy of this data, or liability which may result from the use of its products. Likewise, no patent liability is assumed for use of Vitro Mineral products in any manner which could or would infringe on patent rights of others.

Health Hazard Warning: Prolonged inhalation of dust associated with the materials described in this data sheet can cause delayed lung injury. Avoid creating dust when handling, using or storing. Follow OSHA Safety and Health Standards for fugitive dust. Current Material Safety Data Sheet containing safety information is available and should be consulted before usage.