

CS Glass Powders

Technical Data

Description

CS Glass powders are functional glass fillers and extenders made from 100% recycled glass. The products are white to off-white colored powders with a uniform particle size distribution. X-ray diffraction and scanning electron microscopy confirm that the CS Glass powders are fully amorphous and contain no crystalline silica.

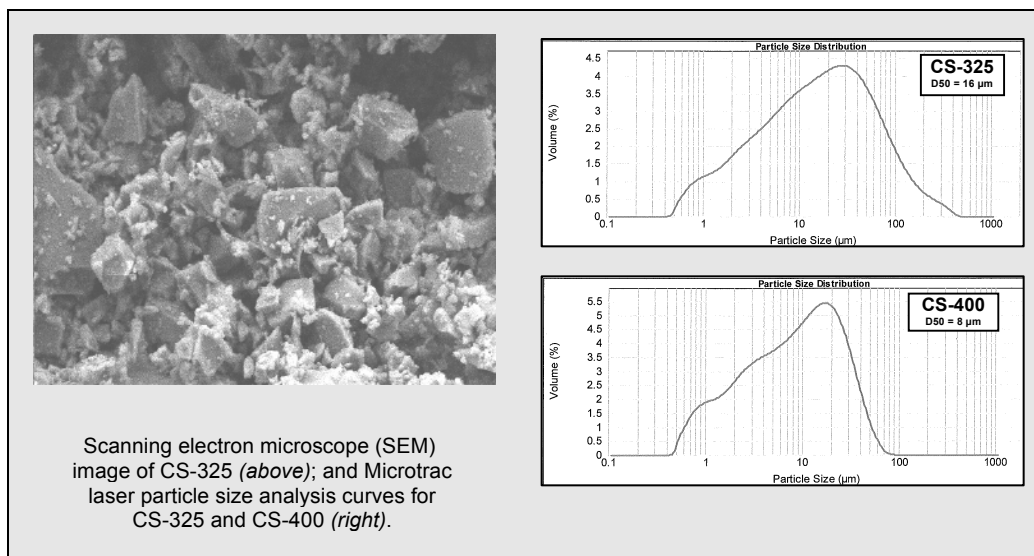
CS Glass powders provide a clean post consumer filler for polymer-based systems where the highest brightness is not required. The fillers impart excellent abrasion resistance and chemical stability to coatings and other polymer systems. Vitro Minerals' unique processing system and true particle size classification provides consistent product quality for three grades with finenesses covering a range of potential applications: **CS-200** ($d_{50} = 12-16 \mu\text{m}$); **CS-325** ($d_{50} = 10-12 \mu\text{m}$); and **CS-400** ($d_{50} = 6-8 \mu\text{m}$).

Typical Chemical Analysis

NOT FOR SPECIFICATION PURPOSES

Chemical Composition: SiO_2 50-80%; CaO 5-15%; Al_2O_3 1-10%; Na_2O 1-15%; K_2O <1%; Fe_2O_3 <1%; MgO <1.5%; TiO_2 <0.1%; B_2O_3 0-5%; LOI <1%

These oxides are combined in an amorphous (non-crystalline) state in a silicate glass.





For more information on our
Green Additives go to
www.glassfillers.com

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Typical Physical Properties*

	Grade CS-200	Grade CS-325	Grade CS-400	Test Procedure
Specific Gravity	2.5	2.5	2.5	ASTM D-153
Bulk Density, lb/ft ³	63	60	50	ASTM C-110
% passing 325 mesh	80-90	90-95	>99	ASTM C-25
d ₉₈ top size, μm	100	50	35	Laser interferometer
d ₅₀ median size, μm	12-16	10-12	6-8	Laser interferometer
Hegman value	2	3	4-5	ASTM D-1210
pH	10-11	10-11	10-11	AFS 113-87-S
Hardness – Mohs	5.5	5.5	5.5	Mohs Scale
Refractive Index	1.56	1.56	1.56	ASTM D-801
Free moisture, %	<0.5	<0.5	<0.5	ASTM C-566
Brightness	78-83	80-85	85-90	Tappi

* Not for specification purposes

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; 1,200-lb (CS-600) & 2,000-lb (CS-500, CS-325, CS-200, CS-100) supersacks; bulk.

FOB plants in Georgia and 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.

Revised: 130309

Vitro Minerals

1505 General Arts Rd, Conyers, GA 30012 Phone: 678-729-9333 Fax: 678-750-0105