

FEATURES & BENEFITS

GLASSIL® Low Iron Glass Sand is produced from an extremely high-purity crystalline silica sand. Unique deposit chemistry is further enhanced by wet processing and chemical flotation to offer glass manufacturers a highly refined source of silicon dioxide.

All GLASSIL grades are processed with rigid adherence to Covia QIPSM quality assurance programs. Consistent size distributions and the statistically accurate removal of coarse and fine grains will produce a uniform melt with lower energy requirements, reduced incidence of foaming or formation of batch scum, and an optimum mix to fully integrate all batch components. Consistently low levels of iron and other refractive elements also offer the advantage of a more uniform batch chemistry, for greater control without additions over critical quality parameters like viscosity, color and clarity.

Chemistry and uniform consistency make GLASSIL LI ideally suited to optimize batch economics in the production of flat and structural glass specialty container glass, tableware and decorative wares, and silicates.

PARTICAL SIZE ANALYSIS

Typical Mean Values. These Do Not Represent A Specification.

	Mesh Size		
	ASTM	MICRONS	LI
Typical mean % retained on individual sieves	20	850	-
	30	600	0.2
	40	425	4.3
	50	300	14.8
	70	212	39.0
	100	150	32.8
	140	106	8.0
	200	75	0.8
	270	53	0.1
	PAN	PAN	-

PHYSICAL PROPERTIES

Typical Mean Values. These Do Not Represent A Specification.

GLASSIL® LI Low Iron Glass Sand		
Melting Point (°F/°C)	3135/1724	ASTM C-24
Specific Gravity (g/cm ³)	2.65	ASTM C-128
Moisture Content (%)	<0.1	ASTM C-566
Bulk Density, Loose (lb/ft ³)	92-95	ASTM C-29

CHEMICAL ANALYSIS

Typical Mean Values. These Do Not Represent A Specification.

Typical Mean Percent by Weight	
Silicon Dioxide (SiO ₂)	99.85
Iron Oxide (Fe ₂ O ₃)	0.01
Aluminum Oxide (Al ₂ O ₃)	0.07
Calcium Oxide (CaO)	tr
Titanium Dioxide (TiO ₂)	0.01
Magnesium Oxide (MgO)	tr
Potassium Oxide (K ₂ O)	0.01
Sodium Oxide (Na ₂ O)	tr
Loss on Ignition (LOI)	0.04

SHIPPING/ORDERING INFORMATION

- Shipping Point: Camden, TN
- Originating Carrier: CSX Rail Systems
- Availability: Bulk Only
Truck and Rail

CUSTOMER SERVICE

US & Canada: 1-800-243-9004
Fax: 1-800-243-9005
Worldwide: 1-203-442-2500
Fax: 1-203-972-1378

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GRADE NUMBERS INDICATE RELATIVE VALUES OR RESULTS. THEY ARE NOT A SPECIFICATION OR WARRANTY OF PERFORMANCE.

Health Hazard Warnings: Prolonged inhalation of dust associated with the materials described in this data sheet can cause delayed lung injury including Silicosis, a progressive, disabling and sometimes fatal lung disease. IARC and NTP have determined that crystalline silica can cause lung cancer in humans. Risk of injury is dependent on the duration and level of exposure. Follow OSHA or other relevant safety and health standards for the form of crystalline silica called Quartz. Current safety data sheet, containing safety information, is available and should be consulted before usage.

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Silica/Silica Containing

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