

## 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 QIP<sup>SM</sup> quality assurance programs. The result is a uniform, chemically pure source of silicon dioxide and a stable alkali contribution for easier, more predictable batch formations. Consistently low levels of iron and other refractive elements offer the advantage of 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	GLASSIL® LI
Typical mean % retained on individual sieves	20	850	-
	30	600	0.3
	40	425	7.4
	50	300	24.8
	70	212	34.9
	100	150	21.4
	140	106	8.5
	200	75	2.2
	270	53	0.4
	PAN	PAN	tr

## PHYSICAL PROPERTIES

*Typical Mean Values. These Do Not Represent A Specification.*

GLASSIL® LI		
Melting Point (°F/°C)	3135/1724	ASTM C-24
Specific Gravity (g/cm <sup>3</sup> )	2.65	ASTM C-128
Moisture Content (%)	<0.1	ASTM C-566
Bulk Density, Loose (lb/ft <sup>3</sup> )	90-95	ASTM C-29

## CHEMICAL ANALYSIS

Typical Mean Values. These Do Not Represent A Specification.

Typical Mean Percent by Weight	
Silicon Dioxide (SiO <sub>2</sub> )	99.88
Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> )	0.011
Aluminum Oxide (Al <sub>2</sub> O <sub>3</sub> )	0.065
Calcium Oxide (CaO)	0.003
Titanium Dioxide (TiO <sub>2</sub> )	0.012
Magnesium Oxide (MgO)	<0.009
Potassium Oxide (K <sub>2</sub> O)	0.006
Sodium Oxide (Na <sub>2</sub> O)	0.001
Zirconium dioxide (ZrO <sub>2</sub> )	0.004
Loss on Ignition (LOI)	0.041

  

ppm	
Chromium Oxide (Cr <sub>2</sub> O <sub>3</sub> )	<1.0
Nickel Oxide (NiO)	<1.0
Manganese (Mn)	0.97

## SHIPPING/ORDERING INFORMATION

- Shipping Point: Junction City, GA
- Originating Carrier: CSX Rail Systems
- Availability: Bulk, IBC  
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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