

FEATURES & BENEFITS

GLASSIL® Melting Sand is produced from high-purity, whole grain crystalline silica sand. Consistent size distribution through accurate classification of coarse and fine grains offers glass manufacturers a uniform melt, reduced incidence of foaming and formation of scum, and optimized mixing integration with all batch components.

All GLASSIL grades are processed with rigid adherence to Covia QIP™ 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.

Available throughout North America, GLASSIL consistency and uniformity is ideally suited to standardize incoming raw materials and to optimize batch economics in the production of flat and structural glass, container glass, tableware and decorative wares, fiberglass and silicates.

PARTICAL SIZE ANALYSIS

Typical Mean Values. These Do Not Represent a Specification.

	Mesh Size		GLASSIL® Grade
	ASTM	MICRONS	540
Typical mean % retained on individual sieves	30	600	—
	40	425	1.6
	50	300	37.1
	70	212	38.7
	100	150	15.3
	140	106	6.0
	200	75	1.2
	270	53	0.1
	PAN	PAN	—

PHYSICAL PROPERTIES

Typical Mean Values. These Do Not Represent a Specification.

GLASSIL® Melting 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
Bulk Density, compacted (lb/ft ³)	98-100	ASTM C-29

CHEMICAL ANALYSIS

Typical Mean Values. These Do Not Represent a Specification.

Typical Mean Percent by Weight	
Silicon Dioxide (SiO ₂)	99.62
Iron Oxide (Fe ₂ O ₃)	0.03
Aluminum Oxide (Al ₂ O ₃)	0.16
Calcium Oxide (CaO)	0.03
Titanium Dioxide (TiO ₂)	0.01
Magnesium Oxide (MgO)	0.02
Potassium Oxide (K ₂ O)	0.11
Sodium Oxide (Na ₂ O)	<0.01
Loss on Ignition (LOI)	0.04

SHIPPING/ORDERING INFORMATION

- Shipping Point: Ottawa, MN
- Originating Carrier: Union Pacific (UP)
- 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 WARNING: 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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