

Melting Sand

FEATURES & BENEFITS

GLASSIL® Melting Sand is produced from high purity, whole grain crystalline silica sands. 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 QIPSM 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® Grades		
	ASTM	MICRONS	440	560	720
Typical Mean % retained on individual sieves	20	850	-	-	-
	30	600	0.6	-	-
	40	425	23.6	1.0	-
	50	300	45.6	42.0	2.0
	70	212	22.8	40.0	22.0
	100	150	5.5	13.0	52.5
	140	106	1.5	3.0	18.0
	200	75	0.3	1.0	5.0
	325	45	-	-	0.5
	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

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CHEMICAL ANALYSIS

Typical Mean Values. These Do Not Represent A Specification.

	Typical Mean Percent by Weight		
	440	560	720
Silicon Dioxide (SiO ₂)	99.50	99.50	99.50
Iron Oxide (Fe ₂ O ₃)	0.018	0.020	0.035
Aluminum Oxide (Al ₂ O ₃)	0.100	0.100	0.100
Calcium Oxide (CaO)	0.012	0.012	0.012
Titanium Dioxide (TiO ₂)	0.010	0.010	0.010
Magnesium Oxide (MgO)	0.009	0.009	0.009
Potassium Oxide (K ₂ O)	0.010	0.010	0.010
Sodium Oxide (Na ₂ O)	0.009	0.009	0.009
Loss on Ignition (LOI)	0.131	0.130	0.130

ORDERING INFORMATION

- Shipping Point: Wedron, IL
- Originating Carrier: Burlington Northern Santa Fe (BNSF)
- Availability: Bulk, 50 lb Paper Bag
Truck and Rail

CUSTOMER SERVICE
US & Canada: 1-800-255-7263
Fax: 1-269-465-6075

3 Summit Park Drive, Suite 700, Independence, OH 44131 | CoviaCorp.com

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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