

## 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® Grades |      |
|--|-----------|---------|-----------------|------|
|  | ASTM      | MICRONS | 530             | 750  |
| Typical mean<br>% retained on<br>individual sieves | 20        | 850     | —               | —    |
|  | 30        | 600     | —               | —    |
|  | 40        | 425     | 2.4             | 0.4  |
|  | 50        | 300     | 24.1            | 4.5  |
|  | 70        | 212     | 41.1            | 46.9 |
|  | 100       | 150     | 25.0            | 35.9 |
|  | 140       | 106     | 6.4             | 10.5 |
|  | 200       | 75      | 0.9             | 1.6  |
|  | 270       | 53      | 0.1             | 0.2  |
|  | PAN       | PAN     | —               | tr   |

## 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 <sup>3</sup> )         | 2.65      | ASTM C-128 |
| Moisture Content (%)                          | <0.1      | ASTM C-566 |
| Bulk Density, loose (lb/ft <sup>3</sup> )     | 92-95     | ASTM C-29  |
| Bulk Density, compacted (lb/ft <sup>3</sup> ) | 98-100    | 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> )              | 99.80 |
| Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> )     | 0.02  |
| Aluminum Oxide (Al <sub>2</sub> O <sub>3</sub> ) | 0.08  |
| Calcium Oxide (CaO)                              | tr    |
| Titanium Dioxide (TiO <sub>2</sub> )             | 0.01  |
| Magnesium Oxide (MgO)                            | tr    |
| Potassium Oxide (K <sub>2</sub> O)               | 0.05  |
| Sodium Oxide (Na <sub>2</sub> O)                 | 0.01  |
| Loss on Ignition (LOI)                           | 0.02  |

**SHIPPING/ORDERING INFORMATION**

- Shipping Point: Portage, WI
- Originating Carrier: Canadian Pacific Railroad
- 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

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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