

Product Data Sheet

Silica Sand — Glass Grade

Description

Description	High-purity, low-iron silica sand engineered for the glass industry. With SiO ₂ min. 99.5% and very low Fe ₂ O ₃ , it delivers the clarity and colour stability required for high-quality container and flat glass.
Applications	Used in container glass, flat / float glass, tableware, and specialty / optical glass.
Used In	Container glass, flat glass, tableware, specialty glass

Key Benefits

- Highest purity grade – SiO₂ min. 99.5%
- Very low iron (Fe₂O₃ max. 0.02%) for clear, colour-stable glass
- Low TiO₂ and CaO+MgO for consistent melting
- Very low clay content (max. 0.1%)
- Tightly controlled grain sizing

Chemical Analysis & Physical Data

Chemical Composition

Parameter	Specification
Silicon Dioxide (SiO ₂)	Min. 99.5%
Iron Oxide (Fe ₂ O ₃)	Max. 0.02%
Aluminium Oxide (Al ₂ O ₃)	Max. 0.50%
Titanium Dioxide (TiO ₂)	Max. 0.02%
Calcium + Magnesium Oxides (CaO + MgO)	Max. 0.30%
Loss on Ignition (LOI)	Max. 0.2%
Clay Content	Max. 0.1%

Physical Properties

Property	Specification
Form	Washed, graded sand

Typical Sizing	0.1 – 0.6 mm (customisable)
Moisture	Max. 0.5% (dried grades lower)
Hardness (Mohs)	7
Origin	India

* Glass-grade iron specified as Fe₂O₃ max. 0.02% (low-iron). Test methods available upon request.

Packaging

- 25 kg / 50 kg PP / HDPE woven bags
- 1 MT / 1.25 MT Jumbo Bags (FIBC)
- Loose in bulk for large industrial / export orders
- Custom packaging available on request.

Storage & Handling

- Store in a dry, covered area protected from moisture and contamination
- Avoid dust generation; provide adequate ventilation
- Keep away from contaminants that could affect purity
- Handle with appropriate PPE to control dust

Disclaimer: The information provided in this document is based on our current knowledge and is intended as a general guide. Specifications vary by mine and lot; figures are typical values. Ochnology Solution Pvt. Ltd. reserves the right to modify specifications without prior notice. Buyers are advised to conduct their own testing for specific applications.