

Product Data Sheet

Quartz — Glass Grade

Description

Description	Glass-grade quartz is a high-purity silica product with SiO ₂ above 99.5% and low iron, supplied as grits or sized grains. Its controlled chemistry and low colouring impurities make it the primary raw material for high-quality container and flat glass.
Applications	Used in container glass, flat / float glass, fibreglass, tableware, and specialty glass where low iron and consistent chemistry are essential.
Used In	Container glass, flat glass, fibreglass, specialty glass

Key Benefits

- High purity – SiO₂ min. 99.5%
- Low iron (Fe₂O₃ max. 0.030%) for clear, colour-stable glass
- Controlled grain sizing for uniform melting
- Low refractory and heavy-mineral contaminants
- Consistent quality suited to continuous glass furnaces

Chemical Analysis & Physical Data

Chemical Composition

Parameter	Specification
Silicon Dioxide (SiO ₂)	Min. 99.5%
Iron Oxide (Fe ₂ O ₃)	Max. 0.030%
Aluminium Oxide (Al ₂ O ₃)	Max. 0.20%
Titanium Dioxide (TiO ₂)	Max. 0.02%
Calcium + Magnesium Oxides (CaO + MgO)	Max. 0.10%
Loss on Ignition (LOI)	Max. 0.20%

Physical Properties

Property	Specification
Form	Grits / grains

Typical Sizing	0.1 – 0.8 mm (customisable)
Moisture	Max. 0.3%
Hardness (Mohs)	7
Origin	India

* Typical ranges; mine- and lot-dependent. Test methods available upon request.

Packaging

- 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 ranges. Ochnology Solution Pvt. Ltd. reserves the right to modify specifications without prior notice. Buyers are advised to conduct their own testing for specific applications.