

Product Data Sheet

Quartz — High Purity Grade

Description

Description	High-purity quartz is a processed silica product with SiO ₂ of 99.9% or higher and very low metallic impurities. Produced through crushing, magnetic separation, and chemical purification, it serves demanding applications in solar, electronics, and high-grade chemical manufacturing.
Applications	Used in semiconductors, photovoltaic / solar cells, high-grade silicon production, quartz crucibles, and high-purity chemical and electronic applications.
Used In	Solar / PV, semiconductors, electronics, high-grade silicon

Key Benefits

- Ultra-high purity – SiO₂ min. 99.9%
- Very low metallic impurities (Fe, Al, Ti, alkalis)
- Processed by magnetic separation and chemical purification
- Suited to solar, semiconductor, and electronics applications
- Available as powder or sized grains to buyer requirement

Chemical Analysis & Physical Data

Chemical Composition

Parameter	Specification
Silicon Dioxide (SiO ₂)	Min. 99.9%
Iron (Fe)	Max. 10 ppm
Aluminium (Al)	Max. 30 ppm
Titanium (Ti)	Max. 5 ppm
Calcium (Ca)	Max. 5 ppm
Sodium + Potassium (Na + K)	Max. 10 ppm

Physical Properties

Property	Specification
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Form	Powder / sized grains
Typical Sizing	To buyer requirement
Moisture	Max. 0.2%
Hardness (Mohs)	7
Origin	India

* Impurity figures are typical maximums in ppm; 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.