

Product Data Sheet

Quartzite Lumps

Description

Description	Quartzite is a hard, metamorphic rock composed predominantly of silica (SiO ₂). Supplied as sized lumps with SiO ₂ typically 95–98%, it is valued for its high mechanical strength and thermal stability, serving as a fluxing agent in metallurgy and as a raw material for refractories and ferro-silicon.
Applications	Used as a fluxing agent in steel and ferro-alloy production, as feedstock for ferro-silicon and silicon metal, and in refractory (silica brick) and ramming mass manufacturing.
Used In	Steel flux, ferro-silicon, ferro-alloys, refractories

Key Benefits

- High silica content – SiO₂ 95% – 98% (typical)
- High mechanical strength and abrasion resistance
- Excellent thermal stability for furnace use
- Suitable for refractory silica brick and ramming mass
- Available in sized lumps (customisable)

Chemical Analysis & Physical Data

Chemical Composition

Parameter	Specification
Silicon Dioxide (SiO ₂)	95% – 98%
Iron Oxide (Fe ₂ O ₃)	Max. 1.0%
Aluminium Oxide (Al ₂ O ₃)	Max. 1.5%
Calcium Oxide (CaO)	Max. 0.5%
Magnesium Oxide (MgO)	Max. 0.5%
Loss on Ignition (LOI)	Max. 0.5%

Physical Properties

Property	Specification
----------	---------------

Form	Lumps
Size	20 – 80 mm (customisable)
Bulk Density	Approx. 2.6 g/cm 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.