

Product Data Sheet

Silica Sand — Foundry Grade

Description	
Description	Foundry-grade silica sand with SiO ₂ min. 98% and controlled grain shape and distribution. It provides the refractoriness, permeability, and structural integrity required for high-precision moulds and cores.
Applications	Used in metal casting moulds and cores, green-sand and resin-bonded foundry systems.
Used In	Metal casting moulds, cores, foundry systems

Key Benefits	
- High silica content – SiO₂ min. 98% - Controlled grain fineness (AFS) and shape for mould strength - Good refractoriness and permeability - Low clay content (max. 0.3%) for consistent binder performance - Reliable lot-to-lot consistency	

Chemical Analysis & Physical Data	
Chemical Composition	
Parameter	Specification
Silicon Dioxide (SiO ₂)	Min. 98.0%
Iron Oxide (Fe ₂ O ₃)	Max. 0.10%
Aluminium Oxide (Al ₂ O ₃)	Max. 1.00%
Titanium Dioxide (TiO ₂)	Max. 0.05%
Calcium + Magnesium Oxides (CaO + MgO)	Max. 0.50%
Loss on Ignition (LOI)	Max. 0.5%
Clay Content	Max. 0.3%
Physical Properties	
Property	Specification

Form	Washed, graded foundry sand
Typical AFS / Sizing	To buyer requirement (e.g. AFS 45–60)
Moisture	Max. 0.5%
Hardness (Mohs)	7
Origin	India

* Typical values; mine- and lot-dependent. 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.