



SILICA SAND – TYPICAL SPECIFICATION

Chemical Properties

Parameter	Typical Specification
Silicon Dioxide (SiO ₂)	≥ 99.0%
Iron Oxide (Fe ₂ O ₃)	≤ 0.10%
Aluminum Oxide (Al ₂ O ₃)	≤ 0.50%
Calcium Oxide (CaO)	≤ 0.20%
Magnesium Oxide (MgO)	≤ 0.10%
Titanium Dioxide (TiO ₂)	≤ 0.10%
Loss on Ignition (LOI)	≤ 0.50%

Physical Properties

Parameter	Typical Specification
Appearance	Clean, free-flowing sand
Color	White / Off-white
Moisture	≤ 0.50%
Bulk Density	Approx. 1.4–1.6 g/cm ³
Specific Gravity	Approx. 2.65
Hardness	Approx. 7 Mohs
Odor	Odorless
Water Solubility	Insoluble

Typical Particle Size

Parameter	Specification
Grain Size	0.1–0.6 mm
Oversize / Undersize	As per buyer requirement



Applications

Suitable for:

- Glass manufacturing
- Construction materials
- Foundry applications
- Water filtration
- Ceramics
- Industrial fillers

Note: The above values represent a **typical commercial specification** and should be adjusted according to the actual Certificate of Analysis (COA), source of silica sand, and customer's application requirements. For glass manufacturing, Fe_2O_3 and particle-size requirements can vary significantly depending on whether the glass is clear, extra-clear, container, or colored glass.

