

Product Data Sheet

Talc — Ceramic Grade

Description

Description	Ceramic grade talc is a hydrated magnesium silicate ($3\text{MgO} \cdot 4\text{SiO}_2 \cdot \text{H}_2\text{O}$) used as a source of MgO in ceramic bodies and glazes. It improves thermal-shock resistance, reduces moisture expansion, and acts as a flux, making it valuable for wall tiles, low-loss steatite ceramics, and sanitaryware.
Applications	Used in ceramic wall and floor tiles, steatite and cordierite ceramics, glazes and frits, sanitaryware, and electrical insulators.
Used In	Ceramic tiles, steatite, cordierite, glazes, insulators

Key Benefits

- Source of MgO for ceramic bodies and glazes
- Improves thermal-shock resistance and reduces moisture expansion
- Acts as a flux, assisting vitrification
- Low iron (Fe_2O_3) for clean fired colour
- Consistent chemistry from established deposits

Chemical Analysis & Physical Data

Chemical Composition

Parameter	Specification
Magnesium Oxide (MgO)	30% – 32%
Silica (SiO_2)	60% – 63%
Calcium Oxide (CaO)	Max. 1.0%
Aluminium Oxide (Al_2O_3)	Max. 1.5%
Iron Oxide (Fe_2O_3)	Max. 0.8%
Loss on Ignition (LOI)	5% – 7%

Physical Properties

Property	Specification
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Form	Powder (customisable fineness)
Typical Fineness	200 / 300 mesh (to spec)
Brightness (ISO)	80 – 88
Moisture	Max. 1.0%
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
- Keep bags sealed to maintain whiteness and prevent contamination
- Avoid dust generation; provide adequate ventilation
- 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.