

SPECIFICATION

Product Name: Talc Powder
Chemical Formula: $\text{Mg}_3\text{Si}_4\text{O}_{10}(\text{OH})_2$
CAS Number: 14807-96-6
Molecular Weight: 379.27 g/mol
Appearance: Off white powder.
Odor: Odorless

Chemical Composition

Parameter	Unit	Typical Value
MgO	%	32%
Particle Sizing	%	< 2% retained at 25µm
SiO ₂	%	60.1%
Oil Absorption	%	35% (Linseed Oil)
Fe ₂ O ₃	%	0.52%
Specific Gravity	-	2.6 (Helium Displacement)
CaO	%	0.4% Hardness 1 (Mohs)
Reflectance	-	>65 (Opacity Reflectometer)
Refractive Index	-	1.58
Asbestos Not Detected	-	Melting Point Stable up to ca. 9000C
Stability	-	Indefinite shelf life. Resistant to mild acids, alkalis
Bulk Density Loose:	g/l	270g/l

Tapped:	g/l	330g/l
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Physical Properties

- Solubility: Insoluble in water. Insoluble in most organic solvents. Slightly reactive/slowly soluble in strong acids (like hydrochloric acid). Generally insoluble in alkalis.

Shelf Life & Storage

- Shelf Life: 5 years from date of manufacture under recommended storage.
- Storage Conditions: Store in a cool, dry, and well-ventilated area. Keep away from moisture and humidity to prevent lump formation. Protect from direct sunlight and heat. Store in tightly sealed bags or containers to avoid contamination. Avoid generating dust during handling and keep packaging intact. Keep away from strong acids.

Applications

- Use: Acts as a filler and reinforcing agent to improve stiffness, dimensional stability, and heat resistance in plastic products. Used as an extender pigment to enhance smoothness, suspension, and durability of paints. Functions as a processing aid and anti-stick agent in rubber manufacturing. Used as a filler and coating agent to improve printability and brightness. Improves thermal resistance and strength in ceramic bodies.
- Dosage: Depends on particle size, purity, and end-use performance requirements.

Packaging

- Standard Packing: 25 kg HDPE bags with inner liner or as per customer requirement.
- Labeling: Product name, batch number, net weight, manufacture date, expiry date, and manufacturer details.

* Specifications are based on the manufacturer's provided specifications.