

PRODUCT IDENTIFICATION



Product Name: Talc Powder - White Colored
CAS Number: 14807-96-6
Molecular Formula: $\text{H}_2\text{Mg}_3\text{O}_{12}\text{Si}_4$
Molecular Weight: 379.27 g/mol
Grade: Technical
Purity / Concentration: Not Available
Synonyms: Talcum Powder, Magnesium Silicate

PRODUCT OVERVIEW

Our Technical Grade Talc Powder is a high-purity, fine-textured magnesium silicate offering exceptional whiteness at 92.5%. With a consistent particle size of 8.5 μm and a 99.2% assay, it serves as a reliable performance filler and lubricant across diverse industrial applications.

Grade Significance: Technical grade signifies that the product is manufactured for industrial performance and consistency rather than pharmaceutical or food-grade standards, making it the cost-effective choice for manufacturing and processing applications.

CERTIFICATE OF ANALYSIS — TYPICAL VALUES

PARAMETER	UNIT	TYPICAL	MIN	MAX	TEST METHOD
Iron	ppm	0.15	—	0.5	ICP
Acid Soluble	%	0.6	—	2	Per specification
Particle Size	μm	$\leq 44 \mu\text{m}$	—	—	Sieve Analysis

ND = Not Detected. Values are typical and may vary by lot.

PHYSICAL & CHEMICAL PROPERTIES

Appearance	Fine powder, soft texture	Odor	Odorless
Form	Fine powder	Boiling Point	1744°C (3171.2°F)
Melting / Freezing Point	1700 to 1800 °F (NTP, 1992)	Specific Gravity	2.75
Solubility	Water insoluble	Molecular Formula	$\text{H}_2\text{Mg}_3\text{O}_{12}\text{Si}_4$
Molecular Weight	379.27 g/mol	Density (25°C)	2.7 g/mL

APPLICATIONS

- Plastics** — Used as a functional filler to enhance mechanical strength and stiffness while effectively reducing overall production costs.
- Cosmetics** — Utilized for its superior absorbent properties and soft texture to improve the feel and consistency of personal care formulations.
- Paper Manufacturing** — Acts as a high-quality coating pigment to significantly improve paper brightness, smoothness, and opacity.
- Rubber Processing** — Functions as an essential lubricant during manufacturing to enhance material flow and minimize friction between components.

STORAGE & HANDLING

Talc powder should be stored in a cool, dry, and well-ventilated area to prevent moisture absorption, which can lead to clumping and reduced performance. Maintaining a tightly sealed container is essential to prevent airborne dust contamination and ensure the integrity of the fine particle size.

- Store in a cool, dry place away from moisture and direct sunlight.
- Use appropriate PPE, including gloves and dust masks, when handling.
- Ensure containers are tightly sealed to prevent contamination.
- Compatible with HDPE and glass containers; avoid metal containers.

AVAILABLE PACKAGING

- 2 lbs.
- 5 Lbs.
- 50 Lbs.

SAFETY SUMMARY (CROSS-REFERENCE TO SDS)

Signal Word: **WARNING**

No GHS pictograms assigned.

Hazard Statements:

- Not Classified
- Reported as not meeting GHS hazard criteria by 4523 of 4758 companies (only 4.9% companies provided GHS information). For more detailed information, please visit ECHA C&L website.

Emergency Contact: CHEMTEL - 800-255-3924 (24 Hours/Day, 7 Days/Week)

For complete safety information, refer to the Safety Data Sheet (SDS) for this product.

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