TECHNICAL DATA SHEET

Talc Powder - White Colored Technical Grade

Revised: 08/10/2026

PRODUCT IDENTIFICATION

Product Name: Talc Powder - White Colored Technical Grade
CAS Number: 14807-96-6
Molecular Formula: $H_2Mg_3O_{12}Si_4$
Molecular Weight: 379.27 g/mol
Grade: Technical Grade
Purity / Concentration: Not Available
Synonyms: Talcum Powder, Magnesium Silicate

PRODUCT OVERVIEW

Alliance Chemical offers high-quality Technical Grade Talc Powder, a versatile magnesium silicate known for its soft texture and fine 19 µm particle size. This inert, mineral-based powder is widely utilized as an effective filler and processing aid across diverse industrial sectors.

Grade Significance: Technical Grade indicates that this product is manufactured for industrial applications where cost-efficiency and performance in manufacturing processes are prioritized over pharmaceutical or food-grade purity standards.

CERTIFICATE OF ANALYSIS — TYPICAL VALUES

PARAMETER	UNIT	TYPICAL	MIN	MAX	TEST METHOD
Iron	ppm	ND	0	0.5	ICP
Acid Soluble	%	0.61	—	2	Per specification
Particle Size	µm	19	0	44	Sieve Analysis

Values based on 2 batches tested. ND = Not Detected.

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**	$H_2Mg_3O_{12}Si_4$
Molecular Weight	379.27 g/mol	**Density (25°C)**	2.7 g/mL

APPLICATIONS

1. **Plastics** — Functions as a functional filler to enhance the mechanical properties of plastic components while effectively reducing overall production costs.
2. **Cosmetics** — Utilized for its superior absorbent properties and soft texture, helping to improve the feel and performance of personal care formulations.
3. **Paper Manufacturing** — Acts as a coating pigment to improve the brightness, smoothness, and opacity of finished paper products.
4. **Rubber Processing** — Serves as an essential lubricant during the manufacturing process to improve material flow and reduce friction between components.

STORAGE & HANDLING

Talc powder should be stored in a cool, dry, and well-ventilated area to prevent moisture absorption and clumping, which can compromise its performance. While it is not classified as a hazardous substance, maintaining a dust-free storage environment is essential to ensure worker safety and prevent inhalation of fine particles.

- 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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