

PRODUCT IDENTIFICATION



Product Name: Organic Vermiculite - Fine Grade

CAS Number: 1318-00-9

Molecular Formula: Not Available

Molecular Weight: Not Available g/mol

Grade: Technical

Purity / Concentration: Not Available

Synonyms: Vermiculite, Expanded Vermiculite

PRODUCT OVERVIEW

Organic Vermiculite Fine Grade is a versatile, porous mineral characterized by its low bulk density of 0.12 g/cm³ and a neutral pH of 7.2. This technical-grade material is widely utilized across industrial and horticultural sectors for its exceptional moisture retention and thermal resistance properties.

Grade Significance: Technical grade indicates that this product is manufactured for industrial and commercial use where performance and physical properties are prioritized over high-purity laboratory standards.

CERTIFICATE OF ANALYSIS — TYPICAL VALUES

PARAMETER	UNIT	TYPICAL	MIN	MAX	TEST METHOD
pH	—	7	6	8	pH Meter
Moisture	%	3	—	10	Per specification
Particle Size	µm	300.0	250.0	500.0	Sieve Analysis

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

PHYSICAL & CHEMICAL PROPERTIES

Appearance	Fine-grained, porous mineral material	Odor	Odorless
Form	Solid	Solubility	Insoluble in water
Density (25°C)	0.1-0.3 g/mL		

APPLICATIONS

- Horticulture** — Used as a soil amendment to improve aeration and moisture retention, helping plants thrive by maintaining consistent root zone hydration.
- Construction** — Serves as a lightweight insulation material, providing effective thermal barriers in wall cavities and attic spaces.
- Concrete Manufacturing** — Utilized as a lightweight aggregate to reduce the overall weight of concrete formulations without significantly compromising structural integrity.
- Fireproofing** — Incorporated into specialized coatings and boards due to its inherent thermal stability and resistance to high temperatures.

STORAGE & HANDLING

Vermiculite must be stored in a cool, dry environment to prevent the absorption of ambient moisture, which can alter its bulk density and handling characteristics. Maintaining a dry, sealed container ensures the material remains free-flowing and prevents potential contamination that could impact its performance in sensitive applications.

- Store in a cool, dry place away from moisture.
- Use appropriate PPE such as gloves and masks when handling to avoid inhalation of dust.
- Keep away from incompatible materials such as strong acids and bases.
- Ensure proper ventilation in storage areas to minimize dust accumulation.

AVAILABLE PACKAGING

- 1.5 LB Bag
- 2 Cubic Ft

SAFETY SUMMARY (CROSS-REFERENCE TO SDS)

Signal Word: WARNING

No GHS pictograms assigned.

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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