

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 Grade**Purity / Concentration:** Not Available**Synonyms:** Vermiculite, Expanded Vermiculite

PRODUCT OVERVIEW

Organic Vermiculite (Fine Grade) is a versatile, porous mineral silicate designed for high-performance industrial and horticultural applications. Featuring a consistent 300.0 µm particle size and a neutral pH of 7, this technical-grade material offers excellent moisture retention and thermal stability.

Grade Significance: Technical Grade indicates that this product is processed specifically for industrial and agricultural utility, ensuring reliable physical properties for non-pharmaceutical or non-food-grade applications.

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 significantly improve aeration and moisture retention for healthier plant root development.
- Construction** — Serves as an effective lightweight insulation material for cavity walls and attics to improve thermal efficiency.
- Building Materials** — Utilized as a lightweight aggregate in specialized concrete formulations to reduce overall structural weight.
- Fire Safety** — Incorporated into fireproofing sprays and boards due to the mineral's inherent thermal resistance and non-combustible nature.

STORAGE & HANDLING

Vermiculite must be stored in a cool, dry environment to prevent the absorption of excess moisture, which can alter its weight and performance characteristics. Maintaining proper storage conditions ensures the material remains free-flowing and prevents the potential for dust accumulation in the work area.

- 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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