



**PRODUCT INFO
& DATASHEET**

VERMICULITE

Available in 4 grades

1/ PRODUCT DESCRIPTION

Vermiculite is the common name for a mineral substance formed of chips of black mica. It is a silicate of magnesium and alumina with a water content of approximately 10% in its crystalline form. Exfoliation is the result of the separation of the chips as the water is rapidly converted into steam under the action of intense and violent heat. During exfoliation, the volume of the chip can be multiplied 20 times and it changes colour from brown to beige.

2/ CHEMICAL COMPOSITION - Typical average analysis

SiO ₂	39.37%	BaO	0.03%
Al ₂ O ₃	12.08%	Cl	0.02%
MgO	23.37%	CaO	1.46%
CO ₂	0.60%	Na ₂ O	0.80%
FeO	0.17%	K ₂ O	2.46%
Fe ₂ O ₃	5.45%	MnO	0.30%
P ₂ O ₅	0.15%	pH	± 7.0

Anti-rot and sterile

3/ PHYSICAL PROPERTIES

Form: concertina
Weight: 80 - 100 kg/cbm
Air volume: 93%
Water absorption: ± 75% volume
Thermal conductivity: very low : lambda = 0.11
Combustivity: zero
Fibre-free

4/ AVAILABLE GRADES

Grade S1: 0 to 1.5 mm
Grade F2: 0 to 3.0 mm
Grade M3: 2 to 5.0 mm
Grade L4: 4 to 10.0 mm

5/ APPLICATIONS

Agriculture / Horticulture:

- * fixing agent for food processing additives
- * fixing of fertilisers
- * encapsulant for seeds
- * aeration of humus
- * dispersion of fine seeds
- * regulator of temperature
- * germination of seeds
- * fixing of phytopharmaceuticals
- * swelling agent
- * soil conditioning
- * in high and low temperature insulation
- * humidity regulator for packing of bulbs and seeds
- * pH correction

6/ PACKING

Bags of 100 litres.

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