

# NESTAAN VERMICULITE

## 1 Description

Vermiculite is a natural, laminated mineral of the mica family that exfoliates when heat-treated at 1000°. During this process, the mineral multiplies because of the evaporated water. After the exfoliation, the particles have a harmonic shape and contain many air bubbles resulting in a lightweight structure. These exfoliated grain is insulating, absorbing, ecological and incombustible.

the color of the exfoliated vermiculite can vary according to the origin of the raw material.

## 2 Product physical properties

Identification number	CAS N° 1318-00-9
Density	85-110 kg/m <sup>3</sup> +/-15% Depending on the granulometrics and origin
Grade	0 à 8 mm
Lambda	0,05 à 0,08 W/m.K
pH	5.5-10
Solubility	insoluble in water and organic solvents
Waterabsorption	Hygroscopic
Fire behaviour	Incombustible, A1
Melting point	+ 1350° C
Stability	Insensible to atmosferic influences
Appearance	Worm-like, brown or yellow
VOC-level	-
<b>Asbestos free</b>	

## 3 Typical chemical composition

Silicon (SiO <sub>2</sub> )	38-46 %
Aluminum (Al <sub>2</sub> O <sub>3</sub> )	10-16 %
Magnesium Oxyde (MgO)	16-35 %
Iron Oxyde(Fe <sub>2</sub> O <sub>3</sub> )	5-13 %
Titanium Oxyde(TiO <sub>2</sub> )	1-3 %
Calcium Oxyde(CaO)	1-5 %
Kalium Oxyde (K <sub>2</sub> O)	1-6 %
Moisture (H <sub>2</sub> O)	3-16 %
Others	1-2 %

## 4 Application

- Building and construction (renovation & new construction)
- Agri - & Horticulture
- Packaging & absorption
- Fire Protection
- Animal feed, substrates, additives for paints, glue, plastering and odour bags

## 5 Granulometrics

Micron	0 / ± 0,5 mm
Superfine	0 / ± 1 mm
Fine	0 / ± 2 mm
Medium	0 / ± 4 mm
Large	0 / ± 8 mm

## 6 Packaging

- Bags of 50 liters, 100 liters by filling
- Big bags of 1200 liters by filling
- Bulk / Others upon request

Pallets of 33 bags / 100 liters

Store inside a dry place. Pallets are not stackable (compression of the material)

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