

NESTAAN VERMICULITE

Fine

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 | 105 kg/m ³ +/-15% depending on the granulometrics and origin |
| Grade | 0 à 2 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 | - |
| Asbestos free | |

3 Typical chemical composition

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

PRODUCER:

Nestaan NV
Tel : +32.69.77.83.20

ZI Tournai Ouest II
Fax : +32.69.22.95.27

Rue du Bois des Hospices 2
infonestaan@nhb.be

7522 Blandain



Previous version :
23.05.2019

Version : 23.01.2024

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