

Technical Data Sheet

Vermiculita V3 IL

Medium Grade

Edition: March 2016

Description

Vermiculite is a mineral belonging to the family of the mica. During a process called exfoliation, vermiculite is subjected to intense heat expanding to 7 times respect the original mineral.

Physical properties

- Loose Density
85-115 kg/m³ (PLAB0701)
- Compacted Density
105-135 kg/m³ (PLAB0702)
- pH (in water)
6-8 (PLAB0705)
- Sieve Analysis (PLAB0717)

| Sieve (µm) | % retained |
|------------|------------|
| 5000 | < 3 % |
| 3150 | 20-40 % |
| 2000 | 35-50 % |
| 1180 | 10-20 % |
| Dust | 10-20 % |

- Free moisture content (PLAB0713)
<10 %
- Ash content (PLAB0718)
7-15 %
- Sintering Temperature
1150-1250 °C
- Fusion Temperature
1200-1350 °C
- Thermal conductivity
0.053 at 20°
- Specific heat
0.2-0.25 kcal/kgK
- Non expanded product
<9 % (PLAB0741)
- Combustibility
Non combustible
- Asbestos
Free asbestos
- Colour
Brown

Chemical properties

| Chemical Composition | |
|--------------------------------|------------|
| Al ₂ O ₃ | 7-15 % |
| SiO ₂ | 34-43 % |
| Fe ₂ O ₃ | 5-13 % |
| MgO | 20-28 % |
| CaO | 0,2-1 % |
| K ₂ O | 0,01-0,1 % |

Applications

- ✚ Production of mortar and light concrete for use as thermal insulation and passive fire protection
- ✚ Thermal insulation for fireplaces and boilers
- ✚ Substrate in hydroponics
- ✚ Moisture absorbent and other liquid pollutants
- ✚ Animal food
- ✚ Transport of Dangerous Goods

Packaging

Vermiculite is packaged in 100 liters bags, with 36/39 bags per pallet. It can also be packaged by big bags or tanker.