

Technical Data Sheet

Vermiculita V1 IL

Superfine 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
105-150 kg/m³ (PLAB0701)
- Compacted Density
120-180 kg/m³ (PLAB0702)
- pH (in water)
6-8 (PLAB0705)
- Sieve Analysis (PLAB0717)

Sieve (µm)	% retained
1400	5-15 %
1180	5-20 %
600	40-60 %
300	15-40 %
150	< 10 %
Dust	< 5 %

- Free moisture content (PLAB0713)
<5 %
- Ash content (PLAB0718)
7-11 %
- 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
<11 % (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.