

# Technical Data Sheet

## Vermiculita V2 IL

### Fine 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  
110-140 kg/m<sup>3</sup> (PLAB0701)
- Compacted Density  
125-175 kg/m<sup>3</sup> (PLAB0702)
- pH (in water)  
6-8 (PLAB0705)
- Sieve Analysis (PLAB0717)

Sieve (µm)	% retained
3150	< 3 %
2000	10-35 %
1400	25-45 %
600	20-50 %
Dust	5-25 %

- Free moisture content (PLAB0713)  
<10 %
- Ash content (PLAB0718)  
10-15 %
- 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  
<10 % (PLAB0741)
- Combustibility  
Non combustible
- Asbestos  
Free asbestos
- Colour  
Brown

#### Chemical properties

Chemical Composition	
Al <sub>2</sub> O <sub>3</sub>	7-15 %
SiO <sub>2</sub>	34-43 %
Fe <sub>2</sub> O <sub>3</sub>	5-13 %
MgO	20-28 %
CaO	0,2-1 %
K <sub>2</sub> 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.