

2002
PERLINDUSTRIA

Data sheet

Vermiculite V2 DA

Fine grade

Vermiculite is a mineral formed by aluminium and iron-magnesium silicates extracted in open mines.

The vermiculite has the property of exfoliating when heated. The exfoliation range becomes 7 times its original volume and turns the dense mineral flakes into light porous granules that contain innumerable layers of air.

The exfoliated vermiculite is light and clean, has a high value of thermal and acoustic insulation, is incombustible and insoluble to water and has the ability to absorb liquids.

Propiedades físicas

Colour	Brown
Apparent density	100-140 kg/m ³ (According to PLAB 0701)
Compacted density	110-150 kg/m ³ (According to PLAB 0702)
Melting temperature	1260 - 1350 °C
Softening temperature	1150 – 1250 °C
PH (in water)	6-8 (According to PLAB 0705)
Non-floating (V)	< 10 % (According to PLAB 0741)
Moisture absorption	<10 % (According to PLAB 0754)
Calcination	8-17 % (According to PLAB 0718)
Refraction Index	1.5
Thermal conductivity	≤ 0.04 W/mK a 20 °C
Specific heat	0.84 kJ/kgK
Combustibility	Non-combustible
Asbestos	Asbestos free

Applications

- Production of mortars or light concretes intended to be used as thermal insulation or passive fire protection
- Thermal insulation for fireplaces and boilers.
- Substrate for hydroponic crops.
- Absorbent of moisture and other liquid contaminants
- Animals food
- Transport for dangerous goods

Packaging and conservation

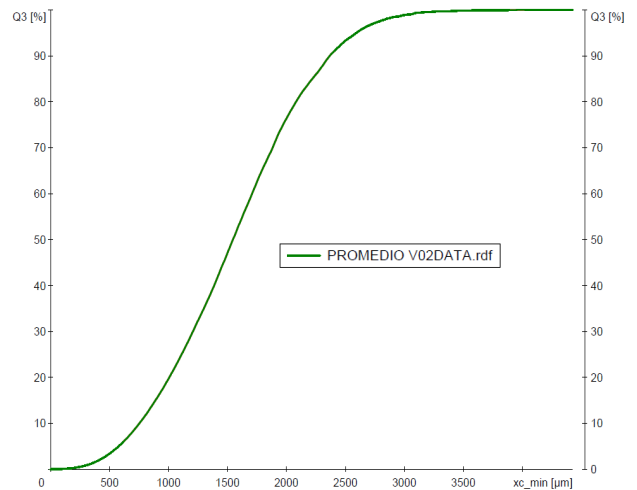
It is usually packaged bags of approximately 100 litres, with 39 bags per pallet. It is also packed in big bags of approximately 1 m³.

Keep the original packaging in a cool and dry place.

Particle size

Sieve (µm)	% retained (vol.)
5000	0 %
3150	< 3 %
2000	5-40 %
1400	20-45 %
600	15-45 %
0	< 15 %

*According to PLAB 0749.



Average particle size: From 0.5 to 2.5 mm (reference value).

Chemical composition

SiO₂	34-43 %
Al₂O₃	7-15 %
K₂O	0,01-0,1 %
MgO	20-28 %
Fe₂O₃	5-13 %
CaO	<0,2-1 %

REV1. March 2020



2002 Perlindustria S.L.U. © 2019
Garraf, s/n. Pol. Ind. Can Prunera
08759 Vallirana, Barcelona

Email: info@perlindustria.com
Web: www.perlindustria.com
Phone: +34 93 683 44 00