

2002
PERLINDUSTRIA

Technical Data Sheet

Vermiculite V0 RA

Micron Grade

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

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 containing 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.

Physical properties

Colour	Brown
Apparent density	90-130 kg/m ³ (according PLAB 0701)
Compacted density	105-155 kg/m ³ (according PLAB 0702)
Melting temperature	1.260 - 1350 °C
Softening temperature	1150 – 1250 °C
PH (in water)	7-9 (according PLAB 0705)
Non floating (weight)	< 15 % (according PLAB 0741)
Non floating (volume)	< 2,3 % (according PLAB 0741)
Relative humidity	< 2,5 % (according PLAB 0713)
Moisture Absorption	< 5 %
Calcination	2-6 % (according PLAB 0718)
Re-expansion	< 0,14 %
Refractive 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

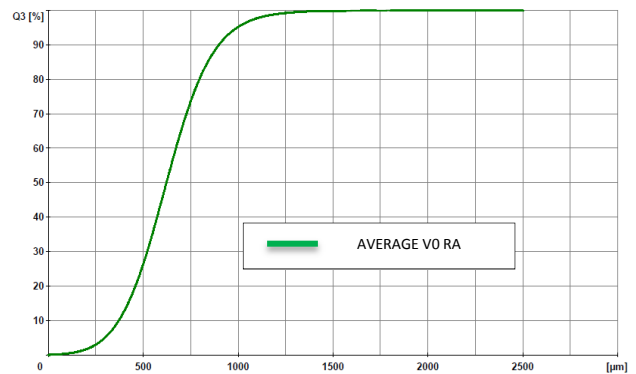
- Production of mortars or light concretes intended to be used as thermal insulation or passive fire protection
- Thermal insulation for fireplaces and boilers.
- Substrate for hydroponic crops.
- Absorbent of moisture and other liquid contaminants
- Animals food
- Transport for dangerous goods

Packaging and conservation

It can be packed in bags with 39 or 36 bags per pallet, big bags with 3 big bags per pallet and tanker truck. Keep the original packaging in a cool and dry place.

Particle size

Sieve (µm)	% detained (vol.)
2000	0 %
1000	1-10 %
630	15-70 %
315	20-70 %
160	< 20 %
0	<4 %



* According to PLAB 0749.

Average particle size: 630 µm (reference value)

Characteristics

% Intern (vol.)	Average size (reference value)
10	370 µm
50	625 µm
90	1500 µm

Chemical composition

SiO ₂	35-47 %
Al ₂ O ₃	6-12 %
K ₂ O	3-8 %
MgO	21-26 %
Fe ₂ O ₃	6-15 %
H ₂ O (combined water)	<1 %

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