

2002
PERLINDUSTRIA

Technical Data Sheet

Perlite V-10F

Perlite is an amorphous volcanic glass that has relatively high water content. It is a mineral that appears in nature, and has the rare property of expanding very much when heated sufficiently.

When it reaches temperatures of 850-900 ° C, the perlite softens. Water trapped in the structure of the material escapes and vaporizes, causing its expansion. The expanded material is a bright white colour, due to the reflectivity of the trapped bubbles.

Physical properties

Colour	White
Bulk Density	40-80 kg/m ³ (according to PLAB 0701)
Compacted Density	50-100 kg/m ³ (according to PLAB 0702)
Melting temperature	1260 - 1350° C
Softening temperature	1150 - 1250° C
pH (in water)	7-10 (according to PLAB 0705)
Refraction Index	1.5
Relative humidity	<2 % (according to PLAB 0713)
Calcination	<5 % (according to PLAB 0718)
Non-floating (V)	<5 % (according to PLAB 0741)
Thermal Conductivity	≤ 0.04 W/mK to 20 °C
Specific heat	0.84 kJ/kgK
Combustibility	Non-combustible
Asbestos	Asbestos free

Applications

- Manufacture of plaster and lightened mortars.
- Products for passive protection (mortars and plates)
- Textile washing.
- Manufacture of refractory products.

Packaging and conservation

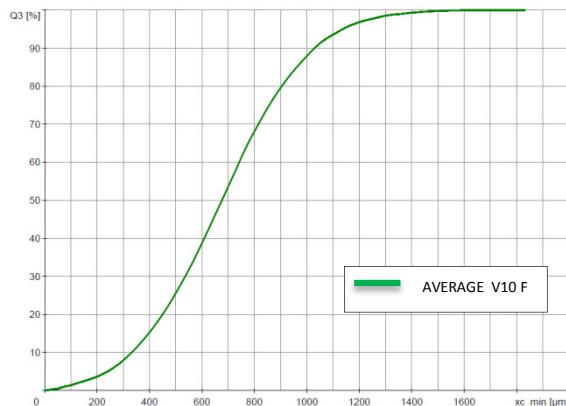
The Perlite can be packaged in 100 litter bags, containing each pallet 36 bags. It can also be packed in big bags, containing each pallet 3 big bags. Moreover, it can also be sold by with tank truck

Keep the original packaging in a cool and dry place.

Particle size

Sieve (μm)	% retained (vol.)
2000	<2 %
1400	<20 %
600	50-80 %
300	10-35 %
150	<10 %
40	<10 %
0	<2 %

* According to PLAB 0749.



Average particle size: From 0.15 to 1.8 mm (reference value)

Features

% Intern (vol.)	Average size (reference value)
10	350 μm
50	700 μm
90	1050 μm

Chemical composition

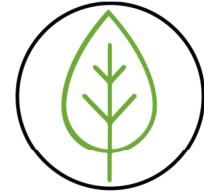
SiO ₂	70-80 %
Al ₂ O ₃	12-16 %
Na ₂ O	2-5 %
K ₂ O	2-5 %
CaO	0-2 %
MgO	0-1 %
Fe ₂ O ₃	0-1 %
H ₂ O (combined water)	<1 %

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