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 pearlite 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.

The expanded perlite, after going through a crushing process, is transformed into a filter whose particles form a non-compressible cake, with 85% of hollow spaces to filter the liquids, being retained in the cake the solid elements in suspension including the of microscopic size.

Physical properties

Colour	White
Bulk Density	60-80 kg/m^3 (according to PLAB 0701)
Compacted Density	80-120 kg/m^3 (according to PLAB 0702)
Melting temperature	1260 - 1350º C
Softening temperature	1150 – 1250º C
PH (in water)	8-9 (according to PLAB 0705)
Refraction Index	1.5
Relative humidity	< 2 % (according to PLAB 0713)
Calcination	< 5 % (according to PLAB 0718)
Non-floating	< 25 % (according to PLAB 0741)
Thermal Conductivity	≤ 0.04 W/mK to 20 ºC
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

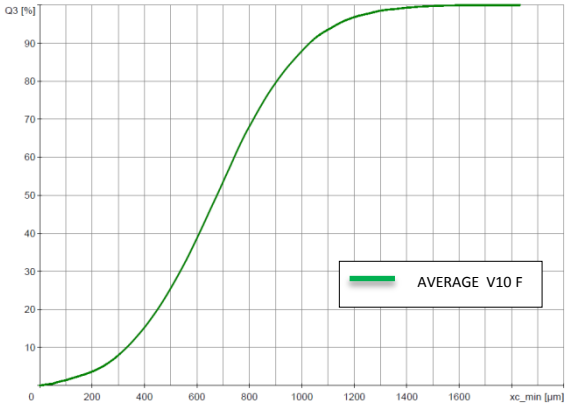
The Perlite can be packaged in 100 litter bags, containing each pallet 36 bags. It can also be packed in big bags, containing each pallet 3 big bags. Moreover, it can also be sold by with tank truck

Keep the original packaging in a cool and dry place.

Particle size

Sieve (µm)	% retained (vol.)
2000	0 %
1400	< 5 %
500	60-80 %
300	15-35 %
150	< 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_2O_3	12-16 %
Na_2O	2-5 %
K_2O	2-5 %
CaO	0-2 %
MgO	0-1 %
Fe_2O_3	0-1 %
H_2O (combined water)	<1 %

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