



2002
PERLINDUSTRIA

Technical Data Sheet

Perlite M130

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 a lot 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 has 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 mass, with 85% of hollow spaces to filter the liquids, being retained in the mass the solid elements in suspension including the of microscopic size.

Physical properties

Colour	White
Apparent density	120-170 kg/m ³ (according PLAB 0701)
Compacted density	170-250 kg/m ³ (according PLAB 0702)
Melting temperature	1.260 - 1350 ° C
Softening temperature	1150 – 1250 ° C
PH (in water)	8-9 (according PLAB 0705)
Refraction Index	1.5
Thermal conductivity	≤ 0.04 W/mK a 20 °C
Softening temperature	1150-1250 °C
Melting temperature	1260-1350 °C
Thermal conductivity	≤ 0.04 W/mK a 20 °C
Specific heat	0.84 kJ/kgK
Combustibility	Non-combustible
Asbestos	Asbestos free

Applications

- Filtration of pharmaceutical liquids in general.
- Filtration of food liquids (wine, glucose, sugar, beer, liquors, oils, etc.).
- Product to make the pre-layers of the filters by alluvion and press filters.

Packaging and conservation

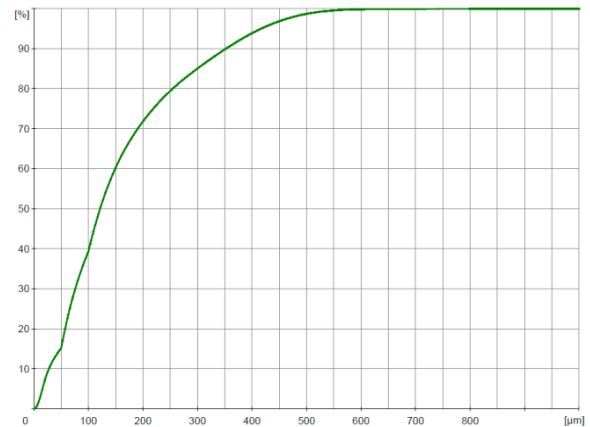
La M130 Perlite is supplied in big bags.

Keep the original packaging in a cool and dry place.

Granulometry

Sieve (µm)	% retained (vol.)
1000	< 0.5 %
800	< 1 %
600	< 2 %
300	10-20 %
160	10-30 %
40	40-60 %
0	< 20 %

* According to PLAB 0749.



Average particle size: From 0 a 0.5 mm (reference value)

Chemical composition

SiO₂	70-80 %
Al₂O₃	12-16 %
Na₂O	2-5 %
K₂O	2-5 %
CaO	0-2 %
MgO	0-1 %
Fe₂O₃	0-1 %
H₂O (combined water)	<1 %