



PRODUCT INFO
& DATASHEET

PERLITE - SUBSTRATE

Available in 3 grades - Used in horticulture since 1952

1/ PRODUCT DESCRIPTION

Perlite - Substrate is a specially selected particle fraction based on Perlite, having an optimum water/air ratio.

Perlite rock is first purified, after which it is ground to a kind of coarse sand and then exposed to very high temperatures in special furnaces. As a result, the water vaporises causing the Perlite to expand. On cooling, the melted rock produces a white, glassy, granular mass with a low volume weight.

Perlite - Substrate particles have a rough surface and contain many capillaries. Thanks to this special structure, the Perlite - Substrate particles can retain large amounts of water. Some of this water is retained on the particle's rough surface and is hence immediately available for absorption by plants. The rest of the water is contained in the capillaries, where it remains available until the plant requires it.

Perlite - Substrate, the substrate based on the expanded volcanic rock Perlite, which has been used in horticulture since 1952.

2/ HOW IS PERLITE FORMED?

The Perlite raw material is an inorganic, glassy, porous rock formed during volcanic eruptions. Perlite rock comprises countless little cells, which contain water.

3/ PHYSICAL PROPERTIES

- * The natural product Perlite - Substrate is inorganic and sterile.
- * As it is inert, it does not react with fertilisers.
- * It is non-toxic and non-flammable.
- * It can be subjected to steaming without any risk of the material's physical properties being affected.
- * Has an insulating effect and minimises fluctuations in temperature.
- * Its good capillary properties make it suitable for intermittent irrigation.
- * Pores : volume fraction approx. 96%
- * Good water/air ratio.
- * Dry bulk density approx. 95 kg/m³.
- * pH 6.5 - 7.5, EC < 0.2

4/ AVAILABLE GRADES

* Available in 3 Perlite - Substrate grades :

- 1) 0.6 - 1.5 mm
- 2) 0.6 - 2.5 mm
- 3) 0.6 - 7.5 mm

5/ CHEMICAL ANALYSIS

Principal elements (mmol/l)

NH ₄	k	Na	Ca	Mg	NO ₃	Cl	SO ₄	HCO ₃	P
0.1	0.1	0.5	0.1	0.1	0.1	0.3	0.1	0.1	0.01

Trace elements (mmol/l)

Fe	Mn	Zn	B	Cu
< 0.2	< 0.2	< 0.2	< 0.5	< 0.5

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