



**PRODUCT INFO  
& DATASHEET**

# **PERLITE**

*Available in 3 grades*

## **1/ PRODUCT DESCRIPTION**

Perlite is a white colored silicate of alumina of volcanic origin. The term Perlite covers any vitreous rock, which can be expanded when heated quickly. Expansion occurs during softening of the outer covering, and the water contained in the grain evaporates. During expansion, the volume of the grain, which becomes porous, can be multiplied 20 times.

## **2/ CHEMICAL COMPOSITION** - Typical average analysis

SiO<sub>2</sub> 65 - 80 %

K<sub>2</sub>O 2 - 4 %

Al<sub>2</sub>O<sub>3</sub> 12 - 16 %

Na<sub>2</sub>O 3 - 5 %

CaO 0 - 2 %

Fe<sub>2</sub>O<sub>3</sub> 1 - 3 %

pH 6.5 - 7.5

Anti-rot and sterile

## **4/ PHYSICAL PROPERTIES**

Form: polymorphous granule

Weight: 80 - 100 kg/cbm

Air volume: 96%

Water absorption: ± 75% volume

Thermal conductivity: very low : lambda = 0.05

Combustivity: zero

Fibre-free

## **5/ AVAILABLE GRADES**

Grade 1: 0 to 1 mm

Grade 2: 0.6 to 2.5 mm

Grade 3: 1 to 5.5 mm

## **6/ APPLICATIONS**

Agriculture / Horticulture :

- \* substrate
- \* aeration
- \* support for fertilisers
- \* germination of seeds
- \* in vitro cultivation
- \* hydroponic cultivation;
- \* soil improvement
- \* light reflection
- \* soil conditioning
- \* propagation (cuttings)
- \* potting compost mixture
- \* temperature regulator.

## **7/ PACKING**

Bags of 100 litres or in bulk.

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