



# Vermiterra

## Exfoliated Vermiculite Products



Seedlings Reinforcement  
Nutrients Retention  
Substrate Temperature Stabilization

# Vermiterra

## Vermiculite



### Generally:

Vermiterra is a hydrous phyllosilicate mineral. It belongs to the clay group, and specifically to the crystalline clays with a lamellar structure. Its look resembles to mica. Vermiculite's main characteristic is the trapped water it contains between its layers of leaves. This layer of water vaporizes abruptly at a temperature of 900°C, resulting in an increase of the mineral by up to 30 times versus its original volume. The exfoliation converts the ore's fine flakes into lightweight accordion-shape granule particles containing numerous layers of air.

### Advantages:

- Does not rot. • Does not mould. • Enjoys durability.
- Odourless, non-toxic. • Neutral pH. • Sterile.

### Properties:

Plants, in any kind of cultivation, need adequate ventilation and proper moisture in their roots as well as the right nutrients to grow properly. The presence of Vermiterra on the crop substrate improves all three parameters, providing significant assistance and solutions to problems of seed germination, nutrition and plant growth. Its excellent thermal insulation properties control the temperature in the root environment so that it does not fall low in winter and does not rise too high in summer. Thus it supports the vegetation of the seedlings and protects the health and physiology of the plant root. Another significant advantage of vermiculite is its cation exchange properties. They provide a significant aid in the release of nutrients to the roots of the plants, but also in their storage and gradual release, reducing the loss of fertilizers caused by rinsing. Furthermore vermiculite's ability to bind and hold calcium, magnesium and significant amounts of potassium, makes it a very important for the growth of the plant. When using Vermiterra as a soil conditioner, the plants absorb more easily the ammonium needed to grow.

- Bulk density: 100-180 g L<sup>-1</sup> • Active porosity: 70% - 75% • Air permeability: 15% - 30%
- Water holding capacity: 40% - 45% • Cation exchange capacity: 19-27 meq L<sup>-1</sup>

### Uses:

Vermiterra is indicated for:

- Seedling production. • Soil conditioner. • Organic farming. • Hydroponics. • Horticultural and floricultural plants.
- Vegetable farming. • Cultivation of vines. • Mushroom cultivation.

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