

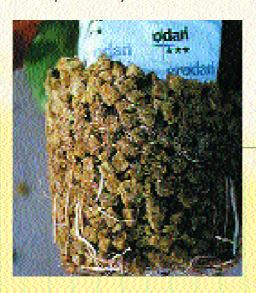
## Grodan® Growcube

Loose substrate, fixed benefits

Are you seeking a substrate for container cultivation, which can be used for more than one season? And do you consider ease of watering during this production period a high priority? If so, then Grodan's Growcube is the ideal substrate for your needs.

Growcube combines the properties of a clean and controllable stonewool substrate that complies with the growing requirements of a loose substrate for container cultivation. Growcube is comprised of small cubes, which have excellent water-retention properties. Moreover, the shape and solidity of these cubes ensure that there is a high percentage of air in the container. This ideal air/water ratio provides the foundation for the efficient control of the crop throughout the production cycle.

Grodan is a supplier of horticultural solutions that utilises a unique combination of a clean and controllable substrate, up to date crop advice, and technical support. This approach enables us to offer the best basis for the production of safe, healthy and high-quality vegetables and plants. Growcube is a loose stonewool substrate - a perfect nutrient medium for growers who opt for container cultivation using a drier substrate that can be used for several seasons, and provides the capability for the day to day control of the substrate water content.



### High air content

Growcube provides the grower with a substrate that always has a high air content. This is due to the nature of the substrate, which is comprised of separate, equally sized cubes with dimensions of I x I x I cm. Growcube is also renowned for its homogeneity and natural ability to retain shape and structure. These characteristics result in large pores between the cubes that ensure a minimum air content of 30%, guaranteeing sufficient availability of air for healthy, active roots — even at higher water contents. In addition, Growcube stimulates a generative growth habit, a benefit

#### **Benefits:**

- Dry substrate with continual high air content
- Ease of watering
- Water in the substrate that is readily available to the plants
- Loose substrate for multi-seasonal use in containers
- Water content and EC can be measured and monitored in the substrate

particularly appreciated by several cucumber growers.

#### Ease of watering

Growcube's naturally high porosity results in a nutrient medium with excellent drainage properties, which promotes excellent root growth throughout the upper and lower regions of the substrate volume. Watering strategies are simplified, since the stonewool substrate cannot become too wet. Strong root growth in the substrate volume will result in a virtual absence of roots emerging through and obstructing

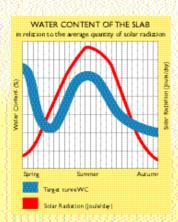












### **More information**

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E-mail: info@grodan.com www.grodan.com the container's drainage holes. A risk that is further reduced by the cubes' ability to retain their shape and resistance to crumbling.

#### Water readily available to the plants

The Growcube substrate usually possesses a water content of about 50%, which for a container or bucket with a volume of 10 litres is equivalent to a water buffer of 5 litres. Virtually all this water is available to the plant — a property of stonewool that makes Growcube unique when compared with other substrates for container production. The Growcube, with this availability of water, helps ensure that the cultivation will be successful, even under extreme conditions.

## Loose substrate for multi-seasonal use in containers

The increased degree of compaction applied during the Growcube manufacturing process ensures the loose substrate has strength in its structure. The cubes retain their shape, making the medium ideally suited to multi-seasonal use. In addition, the Growcube can readily be dried, optimising the effectiveness and efficiency of steamtreatment resulting in cubes that are ready for re-use without unnecessarily high energy costs. As with other Grodan substrates, Growcube is also fully recyclable. Our recycling service is based on the responsible reuse of the material – a service that also includes our stonewool blocks.

# Water content and EC can be measured and monitored in the substrate

In Growcube, measurements of the water content and EC are simple, thereby enabling the grower to rapidly verify that

the air and water conditions, plus the EC levels are appropriate for the desired root environment.

The Growcube substrate is a perfect nutrient medium for growers preferring container cultivation, using a drier, multi-seasonal substrate, that provides simple control over the water content and EC levels.

#### What Grodan can offer you?

- A clean and disease-free substrate that neither exudes nutrients or other substances during cultivation, nor locks nutrients in the slab
- Responsible recycling
- Substrate slab with the Dutch Ecolabel
  Milieukeur\*
- Water-content meters WCM-control (monitoring) and WCM-continuous – for the control of the water content, EC, and temperature of the slab
- Up-to date advice for users

#### **Product specifications**

- Multi-seasonal use
- Homogenous substrate of cubes with dimensions of I x I x I cm
- Increased compaction of fibrous structure, resulting in firmness and excellent water-retention properties
- Water content of between 50-55%
- Normal distribution of water throughout the depth

