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Grodan knowledge & advice

More precision and convenience with GroSens and e-Gro

Our GroSens wireless slab sensors and e-Gro users app for smartphone, tablet or desktop make Precision Growing even easier. Our GroSens hand-held meter is a flexible, reliable instrument with which growers can measure the water content, EC and temperature of any slab. Our GroSens Multisensor system accurately analyses these measurements for an entire greenhouse section 24/7. Combined with our e-Gro app it will enhance

growers' understanding of and control over their plants' root environment. Never before has Precision Growing been this precise.



Grodan develops crop-specific product solutions to meet growers' requirements. Grodan Supreme illustrates the success of this approach. Trials have shown that yields can be increased by up to 5% with this new slab.

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Sweet pepper growing has never been so precise

Grodan Supreme



All our information and advice is compiled with the greatest possible care and in accordance with state of the art technology. However we are unable to assume any liability for the contents. - February 2020



Grodan Supreme takes sweet pepper cultivation one step further

Grodan Supreme is a unique stone wool slab for the cultivation of sweet peppers (V system) that was developed on the basis of customers' requirements. Many sweet pepper growers aim to achieve high early production, a higher total production and peppers of on average better quality. This calls for a substrate with wide water content (WC) and EC control ranges that promotes complete, finely branched root development and constant vigour. The new, more effectively controllable Supreme slab meets these requirements, offering growers more control over the results of their cultivation efforts.

with NG2.0 Technology
Crop-specific slab development
 Our Supreme slab, which was specifically developed for the V cultivation system, is slightly narrower and higher (12 x 10 cm) than other slabs used in the cultivation of sweet peppers (15 x 7.5 cm). Thanks in part to our NG2.0 technology, this slab offers some major advantages, i.e. fast, uniform initial saturation, the more efficient use of the entire substrate volume and an even better distribution of water and nutrients, especially at the top of the slab. The water content (WC) and EC can be more quickly and more accurately corrected. And all this is entirely in accordance with Precision Growing: maximum year-round performance through an efficient use of water, nutrients and energy.

The results are uniform crop development, demonstrably greater early and also late production, fewer quality problems and fewer plant losses.

Specially developed for the V system

This new Supreme slab was specially developed for the V cultivation system. An adjusted version for the four-row system is under development.

Advantages Grodan Supreme:

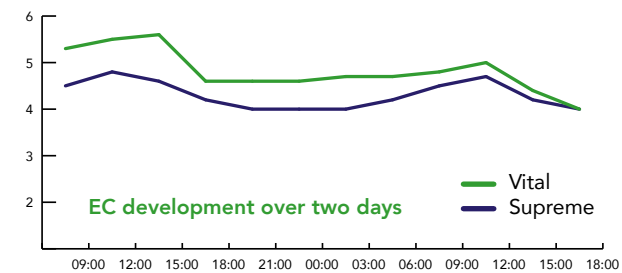
1. Easy to control
2. More vigorous plants
3. Perfect block/slab combination
4. Higher production
5. Better fruit quality

Practical experiences

Trials have shown that the roots of sweet pepper plants penetrate Grodan Supreme faster. The plants form more healthy, fine roots in the upper part of the slab in particular, ensuring more vigorous growth.

1 Easy to control

The higher, narrower Supreme slab responds more quickly to changes in irrigation strategy, this makes it easier to realise a generative crop reaction



at the start of the cultivation season. The fine capillary fibre structure ensures that the top part of the slab retains sufficient moisture. The WC can also be easily lowered during the night without any need for extreme measures. Supreme ensures a perfectly balanced crop from the very start of the season. Because the EC will rise less quickly, you can use water of a slightly higher EC for your trickle irrigation and your plants will make optimum use of the water and nutrients.

2 More vigorous plants

Sweet pepper plants grown in Supreme slabs show fast, very strong root development throughout the entire slab, with a conspicuously high proportion of finely branched active roots in the upper part of the slab. This healthy root system promotes homogeneous initial growth after planting, results in a more uniform number of stems per plant and keeps the plant vital and vigorous in summer and autumn, with virtually no risk of plant losses. The slab's structure ensures that all the nutrient solution is quickly replaced by a fresh

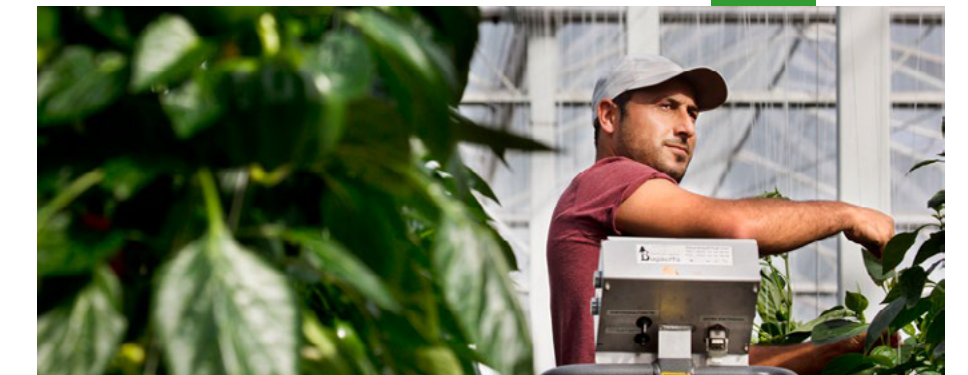
supply. This makes it possible to gear the root environment perfectly to the different cultivation phases and climate conditions.



3 Perfect block/slab combination

A good block/slab combination is essential for optimum crop performance. Since the introduction

of our NG2.0 technology, our propagation blocks and slabs have been based on the same technology. Our Plantop NG2.0 block and our Supreme sweet pepper slab consequently make a perfect combination, ensuring an optimum distribution of water throughout the entire substrate volume. The uniform structure also promotes the continuous production of new roots in both the block and the slab. Even well into the season the plant will form new roots from the block, ensuring extra-vigorous growth.



4 Higher production

Sweet pepper crops grow quickly and very uniformly in Grodan Supreme, enabling them to realise the right balance for high early production sooner. The greater uniformity (fewer less well developed stems) and vigour keep the plants more vital throughout the summer and make them less susceptible to diseases such as Fusarium.

The possibilities of better vegetative and generative crop steering secure extra vigour through the entire season. The advantageous production observed in the early season is consequently continued after August. The plants still look remarkably fresh at the end of the season.

5 Better fruit quality

The plants start producing their first flowers a bit sooner than usual and continue to flower uniformly. The

strong, wide-spread flowers result in rapid, uniform setting of fruit of excellent quality. Varieties that sometimes produce slightly malformed peppers or are susceptible to abortion in other substrates show these problems to a lesser extent in Grodan Supreme, resulting in more harvestable peppers.



Grodan Supreme: Product specifications

- based on our NG2.0 technology
- 10-cm-high slab specially developed for the V system
- dimensions:
- 10 cm high and 12 cm wide
- standard slab lengths
- wrapped in extra-lightproof plastic