

Frank Stolwijk,
satisfied ADVANCED customer
and owner of 'Stolwijk Plants'
in the Netherlands

A photograph of a man with brown hair, smiling, holding a large potted plant. The plant has green leaves and reddish-brown stems. The pot is made of a fibrous, grey material. The background is a field of green plants.

Bright prospects for your container plants

ADVANCED Container Substrates

www.klasmann-deilmann.com



ADVANCED Container Substrates: Combine crop security with sustainability

More alternative materials, the protection of valuable resources as well as the reduction of emissions and the use of local materials are as much a requirement today as the best technical performance for the crop. To meet all these demands we have used our more than 30 years of practical experience with alternative constituents – such as wood fibre, green compost, bark, perlite and coir – to develop a brand new portfolio of substrates: ADVANCED Container Substrates. This range does not only meet the requirements of modern horticulture, it sets a new standard in international horticulture.

Main features of our ADVANCED Substrates:

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- Tried and tested recipes for utmost crop security
 - Meet the latest requirements of professional horticulture
 - Modern alternative constituents with positive properties
 - Optimised product weight and loading volume
 - Resource-saving through the use of alternative raw materials
 - Significant reduction of emissions
 - Peat only from responsibly managed sources with RPP certification



“In recent years, we have been confronted with customers asking for more ecologically responsible substrates. Supported by Klasmann-Deilmann we have achieved to use 20% GreenFibre® in our crops. I feel this has a positive contribution to our crop management, as we get a better water balance and the substrate is easier to rewet.”

Lode De Waele, satisfied ADVANCED customer, owner 'De Waele Handelskwekerij BVBA',
a leading producer of container plants in Belgium

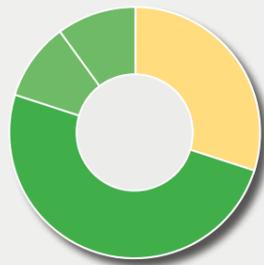


Find out more about our
ADVANCED Container Substrates

Some examples of convincing crop results with **ADVANCED** Container Substrates

TS 4 PLUS coarse + 30% GreenFibre®

P24



Structure – coarse
pH-value (H₂O) – 5.5
Fertilisation (g/l) – 1.0
Extra trace elements – ✓

Water capacity – +++
Air capacity / drainage – +++
Structural stability – ++++

Characteristics – High structural stability and increased drainage
Use for – Shrubs and trees, foliage plants



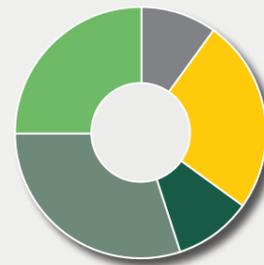
28% less CO₂*

*Compared to segment standard with 100% peat (rec. 609), verified in accordance with ISO 14064-1 standard

GreenFibre® medium White peat, moderately decomposed (0-25 mm) White sod peat (10-25 mm) White sod peat (25-45 mm)

Container Substrate 2 coarse with 10% TerrAktiv® + 25% GreenFibre®

6X9



Structure – coarse-fibrous
pH-value (H₂O) – 5.7
Fertilisation (g/l) – none
Extra trace elements – ✓

Water capacity – ++
Air capacity / drainage – ++++
Structural stability – ++++

Characteristics – Extra water and nutrient buffer plus strong microbial activity for healthy plants
Use for – Trees, conifers



30% less CO₂*

*Compared to segment standard with 100% peat (rec. 250), verified in accordance with ISO 14064-1 standard

TerrAktiv® GreenFibre® coarse Frozen through black peat Peat fibres White sod peat (25-45 mm)



Crop results (Rec. P24)

Practical findings:

- ⊕ Very strong draining capacity
- ⊕ Vigorous root growth
- ⊕ Drier surface and good water distribution in the root zone
- ⊕ Works ideally with normal liquid fertiliser or controlled release fertiliser due to stable nitrogen balance

Very healthy root development of Photinia fraseri grown in TS 4 PLUS coarse + 30% GreenFibre®, rec. P24 (The Netherlands)



Crop results (Rec. 6X9)

Practical findings:

- ⊕ Ideal root development due to perfect drainage
- ⊕ Drier surface and good water distribution in the root zone
- ⊕ TerrAktiv® generates high microbial activity, which leads to suppressive effects on soil-borne pathogens and stimulation of plant growth
- ⊕ Reduction of 0.5 - 1.0 kg/m³ controlled release fertiliser is possible (TerrAktiv® is a natural source of P and K)
- ⊕ Use of 35% alternative constituents is possible

Container Substrate 2 coarse (rec. 6X9) with 35% alternative constituents used for cultivation of shrubs (Germany)



Lucas de Nolf, satisfied **ADVANCED** customer, co-owner of 'Willy De Nolf Boomkwekerij NV', a leading container plant producer in Belgium

Benefits of **ADVANCED Container Substrates with GreenFibre®**

- ⊕ Increased air capacity and optimised drainage
- ⊕ Very few fine particles, long-term structural stability
- ⊕ Improved capillarity of the substrate
- ⊕ Easier rewetting of substrate
- ⊕ Excellent root development
- ⊕ Drier surface, less growth of algae and liverwort
- ⊕ Uncomplicated crop feeding due to the stable nitrogen balance
- ⊕ Low weight, reduced transport costs
- ⊕ Renewable raw material from sustainable forestry



TerrAktiv® green compost - for healthy shrubs and trees

For more than 30 years we have been using TerrAktiv® green compost in substrates with positive effects:

- ⊕ Generates high microbial activity
- ⊕ Shows suppressive effects on soil-borne pathogens and stimulates plant growth
- ⊕ Allows a slight reduction of controlled release fertiliser due to the nutrient content

The addition of 10% TerrAktiv® is already sufficient to achieve effects.

More advanced product solutions for container crops



Containermulch: The perfect addition for ADVANCED Container Substrates

- ⊕ Excellent moss and weed prevention
- ⊕ Optimum coverage of the surface
- ⊕ Significantly reduced need for herbicide
- ⊕ Keeps substrate moist
- ⊕ Thermally treated to avoid phytosanitary risks
- ⊕ Natural appearance
- ⊕ Additionally increases the proportion of alternative raw materials in the container
- ⊕ Supports protection of valuable peat resources



Find out more about
Containermulch



Log & Solve®: The digital consulting platform

- ⊕ Safeguard the yield of your crops
- ⊕ Improve production efficiency and reduce crop failure
- ⊕ Monitor relevant cultivation parameters to anticipate crop issues
- ⊕ Gain data-based conclusions for faster problem solving
- ⊕ Share digital cultivation data with advisors for expert support
- ⊕ Log data about cultivation measures, observations from crop walks, pictures and more
- ⊕ Usable with smartphones



Find out more about
Log & Solve®

“For some years we have been looking for a substrate that is very airy. This is important for azaleas. With the wood fibre GreenFibre® we have found a solution that makes this possible. 20% of this raw material is well suited and even gives us an advantage in cultivation. It is also suitable for automated planting and for sticking our cuttings into the substrate. It works perfectly”.

Stijn De Clercq, satisfied ADVANCED customer, owner of 'Stijn De Clercq Azaleakwekerij', leading producer of azalea in Belgium



DISCLAIMER

The information in this brochure is based on our current knowledge and does not claim to be complete or correct. We reserve the right to make changes. We do not assume any guarantee or liability for successful cultivation, as the use of our products must be adapted to the individual site, storage and cultivation conditions of the respective nursery, which is beyond our knowledge and influence. The information in this brochure cannot replace individual advice. They are neither binding nor part of a consulting or information contract.



we make it grow

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