

Emmanuel Cellier,
satisfied ADVANCED customer,
owner of 'Cellier Plants'
in France



More is always
possible

ADVANCED Propagation Substrates



ADVANCED Propagation Substrates: Strong and healthy seedlings

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 Propagation 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:

- 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

“I immediately liked GreenFibre®. The tray substrate absorbs the water better and we can water a little less. This also means we have fewer problems with dry areas in the trays. The crops develop more uniformly, which is why GreenFibre® is now consistently used by us. In addition, we should think about the use of our planet’s resources. GreenFibre® can do a lot to conserve valuable peat raw materials.”

Patrick Limousin, satisfied ADVANCED customer,
owner of 'EARL Limousin' in France

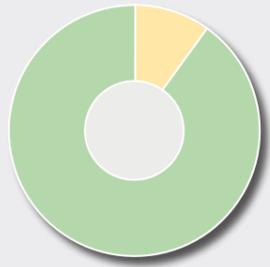


Find out more about our
ADVANCED Propagation Substrates

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

TS 1 fine + GreenFibre®

6X3



Structure – extra fine
 pH-value (H₂O) – 6.0
 Fertilisation (g/l) – 1.0
 Extra trace elements – ✓

Water capacity – +++
 Air capacity / drainage – +++
 Water uptake – +++

Characteristics – Extra light, free flowing seedling substrate. Suitable for automatic filling lines for vegetable young plants, ornamental young plants
 Use for – Vegetable young plants, ornamental young plants

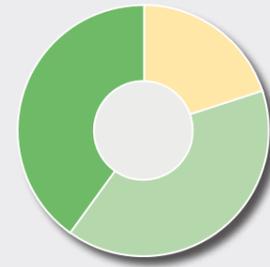


*Compared to segment standard with 100% peat (rec. 876), verified in accordance with ISO 14064-1 standard

GreenFibre® fine White peat (0-5 mm)

Plug Mix + 20% GreenFibre®

9U5



Structure – fine
 pH-value (H₂O) – 6.0
 Fertilisation (g/l) – 0.5
 Extra trace elements – ✓

Water capacity – +++
 Air capacity / drainage – ++++
 Water uptake – +++

Characteristics – Provides increased air capacity and drainage
 Use for – Vegetable young plants, ornamental young plants



*Compared to segment standard with 100% peat (rec. 408), verified in accordance with ISO 14064-1 standard

GreenFibre® fine White peat (0-5 mm) White sod peat (1-7 mm)



Crop results (Rec. 6X3)

Practical findings:

- Stronger young plants compared to the control sample only with perlite
- Faster development in the first cultivation period but initially slightly lighter leaves
- At the end of the cultivation period slightly greener young plants showing very healthy growth
- No adjustment of regular fertilisation strategy necessary

TS 1 fine + GreenFibre® with addition of 10% perlite on the nursery used for cultivation of lettuce (Costa Rica)



Crop results (Rec. 9U5)

Practical findings:

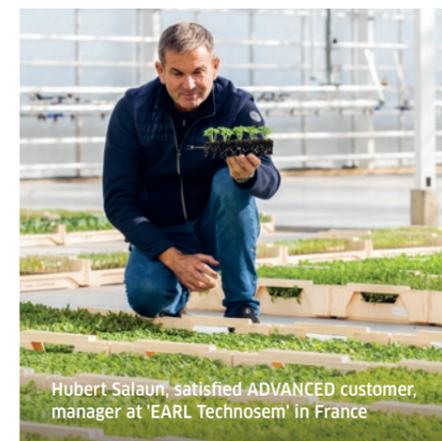
- Used for cultivation of lettuce and spinach under shade net in South Africa for replacement of coir substrate
- Plants grown in Plug Mix + GreenFibre® (9U5) achieve the best performance and develop far better than plants in common substrates based on bark and coir
- Normal feeding regime led to strong spinach and lettuce plants
- The use of perlite and GreenFibre® offers strong benefits in terms of drainage and aeration of roots, especially in areas with heavy rainfall

Perfect lettuce seedlings grown in Plug Mix + 20% GreenFibre®, recipe 9U5 (South Africa)



GreenFibre®: Our premium wood fibre

- Specifically developed for the needs of modern horticulture
- Manufactured inhouse by Klasmann-Deilmann and fully RHP certified
- Made of virgin wood from responsibly managed sources
- Improves aeration and structural stability in substrates
- Stable nitrogen balance to suit normal feeding regime
- Low weight and low carbon footprint
- Very safe constituent and well available throughout the year

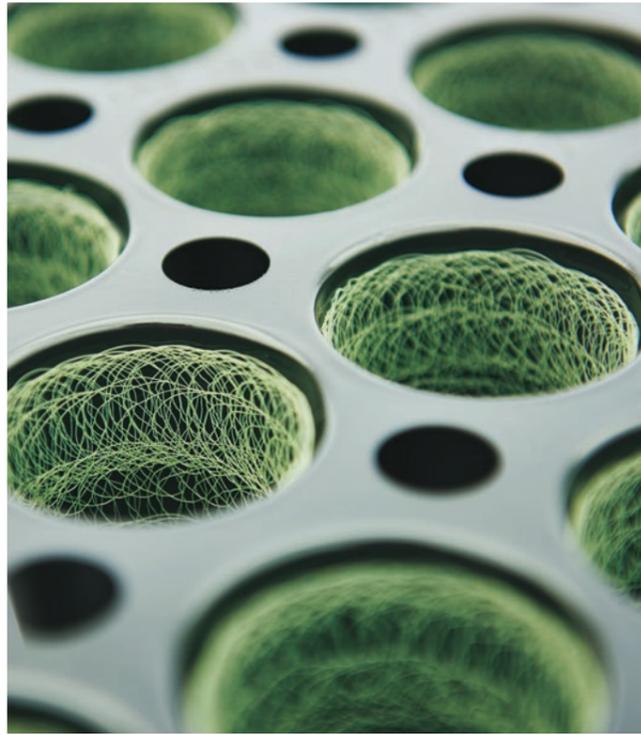


Hubert Salaun, satisfied **ADVANCED** customer, manager at 'EARL Technosem' in France

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

- Improved initial development of roots and seedlings
- Enhanced homogeneity of young plants in trays
- Higher aeration of the root zone and increased drainage
- Less infestation of young plants with root diseases due to the better aeration
- Less algae and moss development on trays, since the substrate surface dries off quicker
- Easier rewetting of the substrate

More advanced product solutions for propagation



Growcoon: the innovative propagation system

Growcoon is a biodegradable propagation plug with a stable but flexible open net structure. The Growcoon forms a stable root ball when used in combination with a high-quality seedling substrate. It is the optimal system for all types of propagation methods. Main Benefits:

- ⊕ Shorter growing cycles
- ⊕ Robust plants
- ⊕ Higher root ball stability
- ⊕ Lower failure rates – especially with sensitive seedlings



Find out more about the Growcoon



Manufactured by Klasmann-Deilmann: horticultural perlite for propagation

We manufacture high quality horticultural grade perlite on our own production line in Lithuania:

- ⊕ Full inhouse control of all quality parameter
- ⊕ Year-round availability of perlite for our factories and thus independency from supply bottlenecks
- ⊕ Reduced transport and lower carbon emissions
- ⊕ Commercially interesting constituent

The benefits of perlite for your propagation substrate:

- ⊕ Increases air capacity and drainage
- ⊕ Prevents waterlogging
- ⊕ Provides excellent structural stability
- ⊕ Is pH neutral and has an extremely low salt level



Find out more about our constituents



“Nowadays, growers become aware of an increasing demand of substrates in China. Therefore, alternative constituents are necessary and we are not afraid of stepping forward to use them in our substrate. It just requires small adaptations and we have the support of Klasmann-Deilmann during this transition period.”

Xu Hanchao, satisfied ADVANCED customer and technical manager for 'Nansha Jiaojie Young Plant', China

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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