





## Your way to advanced solutions

Welcome to your advance	4
Modern substrate constitutents	8
Propagation Substrates	14
Blocking Substrates	20
Bedding Substrates	24
Potting Substrates	30
Container Substrates	36
Soft Fruit Substrates	40
More advanced product solutions	48
The Klasmann-Deilmann Group	50







# Evolution of Growing Media

## Welcome to your advance

ADVANCED Substrates set the benchmark for future-oriented horticulture. They combine the most valued raw materials to high performance blends with a low carbon footprint. Wood fibre, perlite, cocos, green compost and peat boost essential characteristics in the substrate, thus ensuring the precise crop control in your nursery and the healthy growth of your plants.

ADVANCED Substrates cover all plant and cultivation segments for any horticultural

application. The mixes are tried and tested and have proven their suitability for all internationally common applications in commercial horticulture.

Decades of experience with all major raw materials and the widest range of growing media give us a unique edge. That makes your next step easier. When you're ready to advance, we're ready to join you.



## "ADVANCED Substrates by Klasmann-Deilmann..."

"... are the result of decades of research, development and experience. They guarantee the correct recipe for every crop, the best raw materials for every cultivation method, the highest quality for your nursery – and the use of highly sustainable resources for the environment and climate. We are convinced that more advanced means more success for your crops."

#### Dr. Sebastian Kipp

Head of Advisory Services and Quality Management at Klasmann-Deilmann





"... contain a proportion of alternative raw materials. We rely on proven constituents such as wood fibres, green compost, coir and perlite. The tried and tested recipes meet all requirements for pioneering horticulture. They combine maximum crop safety with reliable availability and a reduced carbon footprint."

#### Anja Fritzen

Technical Advisor at Klasmann-Deilmann





## From coir to wood fibre: Modern constituents for your ADVANCED Substrate



## Why GreenFibre®?

#### GreenFibre® ...

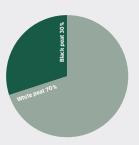
- ... is a wood fibre from sustainably managed forestry and manufactured by ourselves
- ... is a RHP certified raw material, specially developed for the needs of modern horticulture
- ... leads to better aeration and higher structural stability
- ... increases drainage in the root zone, thus less issues with waterlogging
- ... improves the water distribution in the substrate
- ... ensures easier rewetting of the substrate
- ... enables a healthy and fast root development
- ... ensures better drying off of the substrate surface, thus less pressure from root diseases
- ... prevents algae and moss, due to drier substrate surface
- ... provides a stable nitrogen balance to suit normal feeding regime

## Reduce CO<sub>2</sub> emissions significantly. With climate-friendly substrate blends

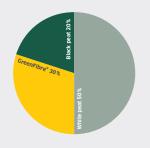


Read more

#### **Bedding substrates**

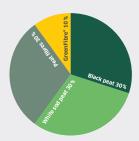


0% alternative constituents (230 kg CO<sub>2</sub>/m<sup>3</sup>)

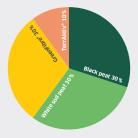


30% alternative constituents = 28% less CO<sub>2</sub> emissions

#### **Container substrates**



10% alternative constituents (204 kg CO<sub>2</sub>/m³)



40% alternative constituents = 24% less CO<sub>2</sub> emissions



## Why perlite?

### Perlite ...

- ... increases air capacity and drainage
- ... prevents waterlogging
- ... provides excellent structural stability
- ... is pH-neutral and has an extremely low salt level
- ... is ideal for use in substrates for propagation and potting when strong drainage and structural stability is required
- ... is produced according to high quality standards in our own factory

## Why cocos products?

#### Coir Pith ...

- ... shows good rewettability
- ... supports a quick water uptake into the substrate
- ... provides a balanced air-water ratio and good drainage

#### Coco Fibre ...

- ... is characterised by a very high air capacity and low water capacity
- ... provides a high capillarity for a very fast water transport within the root zone
- ... supports the structural stability of a growing media

## Coir for organic growing ...

- ... is carefully washed and not treated with mineral fertilisers
- ... carries the ecolabel IMO ensuring organic and ethical standards



## Why TerrAktiv®?

TerrAktiv® green compost ...

- ... provides a high microbial activity
- ... shows suppressive effects on root diseases
- ... stimulates root development and plant growth
- ... acts as a slow-release nutrient source
- ... has a high buffering capacity
- ... improves shelf life of crops
- ... improves rewettability
- ... improves the nutrient release from organic fertiliser
- ... is certified to RHP quality standards and approved for organic cultivation





## Sustainable growing media

We appreciate that you aim to manage your nursery responsibly also in terms of nature and climate protection. That's why ADVANCED Substrates offer you the maximum crop security while supporting your sustainable development.

By the use of alternative constituents, we optimise the characteristics of your substrate and reduce its carbon footprint at the same time. That leads to additional benefits such as ...

- ... more resource-saving cultivation through the use of more renewable raw materials
- ... lighter mixes and thus more environmentally friendly transport
- ... fewer emissions and therefore a more climate-friendly greenhouse
- ... increased microbial life and thereby stronger plants with less need for plant protection applications

## Certified to the highest standards

Quality: Regelings Handels Potgronden (www.rhp.nl)

Responsibility: Responsibly Produced Peat (www.responsiblyproducedpeat.org)

Sustainability: Global Reporting Initiative (www.globalreporting.org)

Organic: EC No. 2018/848 and 2021/1165, certified by ECOCERT® SA F-32600

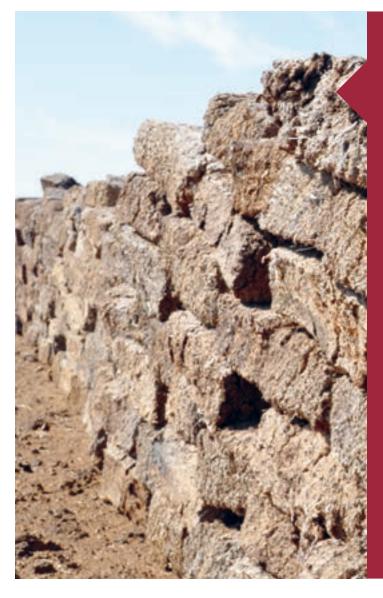
Climate: ISO 14064
Nature: ISO 14001
Processes: ISO 9001











## Why Peat?

Peat ...

- ... remains the key constituent in substrate production
- ... enables the use of any other alternative raw material
- ... is well available long-term all year round
- ... provides uniform properties
- ... ensure a stable pH value and optimum nutrient level
- ... shows good buffering capabilities
- ... has a high structural stability and good wettability
- ... allows an optimum ratio between air and water capacity
- ... is free from pathogens or harmful substances and almost free from weed seeds





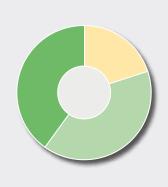








**9U5** 



Structure - fine

pH-value ( $H_2O$ ) - 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

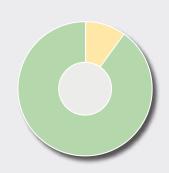
19% less CO,

\*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)

## Base Substrate 1 fine + GreenFibre®

6X2



Structure - extra fine

pH-value (H<sub>2</sub>0) - 6.0

Fertilisation (g/l) - none

Extra trace elements - √

Water capacity - +++

Air capacity / drainage - +++

Water uptake - +++

Characteristics - To mix with fertiliser

on site or alongside

liquid feed

Use for - Vegetable young plants,

ornamental young plants



\*Compared to segment standard with 100% peat (rec. 413), verified in accordance with ISO 14064-1 standard

### TS 1 fine + GreenFibre®

GreenFibre® fine White peat (0 - 5 mm)

**6X3** 



Structure - extra fine

pH-value (H<sub>2</sub>0) - 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

Use for - Vegetable young plants,

ornamental young plants



GreenFibre® fine White peat (0 - 5 mm)

### TS 1 fine + 15% Perlite

419



Structure - extra fine

pH-value (H<sub>2</sub>0) - 6.0

Fertilisation (g/l) - 1.0

Extra trace elements - √

Water capacity - +++

Air capacity / drainage - +++ Water uptake - +++

Characteristics - Extra light, free

flowing, with

improved drainage

Use for -Vegetable young plants,

tobacco seedlings



TS 2 fine + 10 % Perlite

Perlite coarse (1 - 7.5 mm) White peat (0 - 5 mm)

**S39** 

Structure - extra fine

pH-value  $(H_20)$  - 6.0

Fertilisation (g/l) - 2.0

Extra trace elements - none

Water capacity - +++

Air capacity / drainage - +++

Water uptake - +++

Characteristics - For young plants with

high nutrient demand and for growing

conditions with frequent irrigation

Use for - Vegetable seedlings,

tobacco seedlings



TS 3 fine + 10% GreenFibre®

Perlite coarse (1 - 7.5 mm) White peat (0 - 5 mm)

1R1



Structure - extra fine

pH-value  $(H_20)$  - 6.0

Fertilisation (g/l) - 1.0

Extra trace elements - √

Water capacity - ++++

Air capacity / drainage - ++

Water uptake - +++

Characteristics - Seedling mix with

increased water

capacity

Use for - Vegetable young plants,

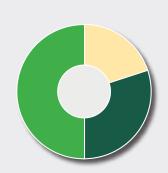
ornamental young plants



GreenFibre® fine White peat, moderately decomposed (0 - 5 mm)



#### 504



Structure - extra fine pH-value (H<sub>2</sub>0) - 6.0 Fertilisation (g/l) - 1.3

Extra trace elements − √

Water capacity - ++++ Air capacity / drainage - +++

Water uptake - ++++

Characteristics - Good water retention

combined with improved porosity

Use for - Vegetable young plants,

ornamental young plants

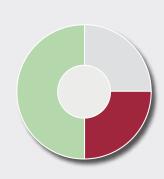


\*Compared to segment standard with 100% peat (rec. 316), verified in accordance with ISO 14064-1 standard

GreenFibre® fine Frozen through black peat White peat, moderately decomposed (0-5 mm)

## TS Steckmedium with 25% perlite + 25% coir

T30



Perlite fine (0.6 - 2.5 mm) Coir White peat (0 - 5 mm)

Structure - extra fine

pH-value ( $H_2O$ ) - 6.0

Fertilisation (g/l) - 0.5

Extra trace elements - √

Water capacity - +++

Air capacity / drainage - +++ Water uptake - ++++

Characteristics - Rooting cuttings in

small trays and small

paper pots

Use for - Ornamental plants



## TS Steckmedium

686



Structure - fine pH-value  $(H_2O)$  - 6.0 Fertilisation (g/l) - 0.5

Extra trace elements - ✓

Water capacity - ++

Air capacity / drainage - ++++

Water uptake - +++

Characteristics - Rooting cuttings in

modular trays, small pots and paper pots

Use for - Ornamental plants,

shrubs and trees



Perlite coarse (1-7.5 mm) White sod peat (1-7 mm)

6X1



Structure - fine pH-value  $(H_20)$  - 6.0 Fertilisation (g/l) - 1.5 Extra trace elements - √

Water capacity - +++++ Air capacity / drainage - +

Water uptake - +++++

Characteristics - Provides extra water retention, suitable for sowing in trays

> Use for - Vegetable seedlings, tobacco seedlings

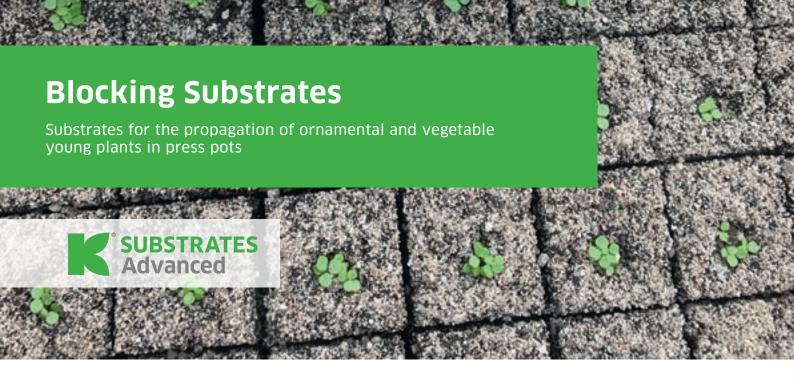
9% less CO, \*Compared to segment standard with 100% peat (rec. 076), verified in accordance with ISO 14064-1 standard

GreenFibre® fine Frozen through black peat

"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."

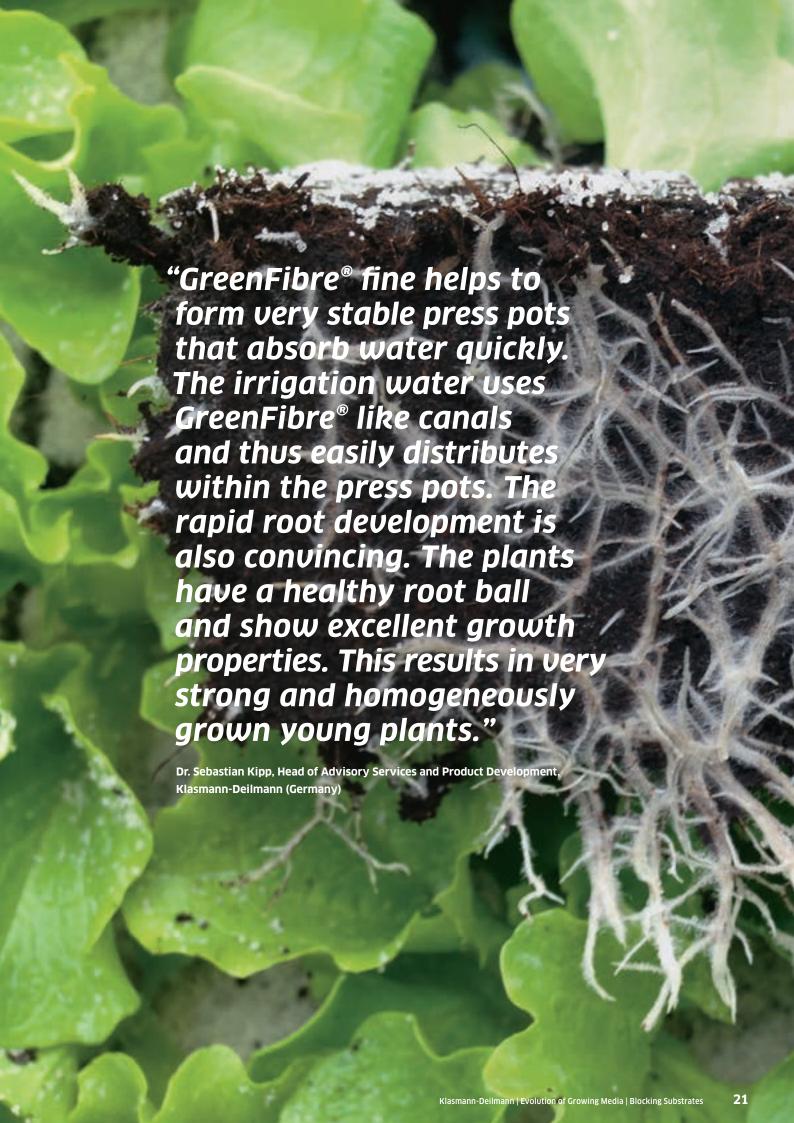
Patrick Limousin, Satisfied ADVANCED customer and owner of EARL Limousin, a leading producer of vegetable young plants in France

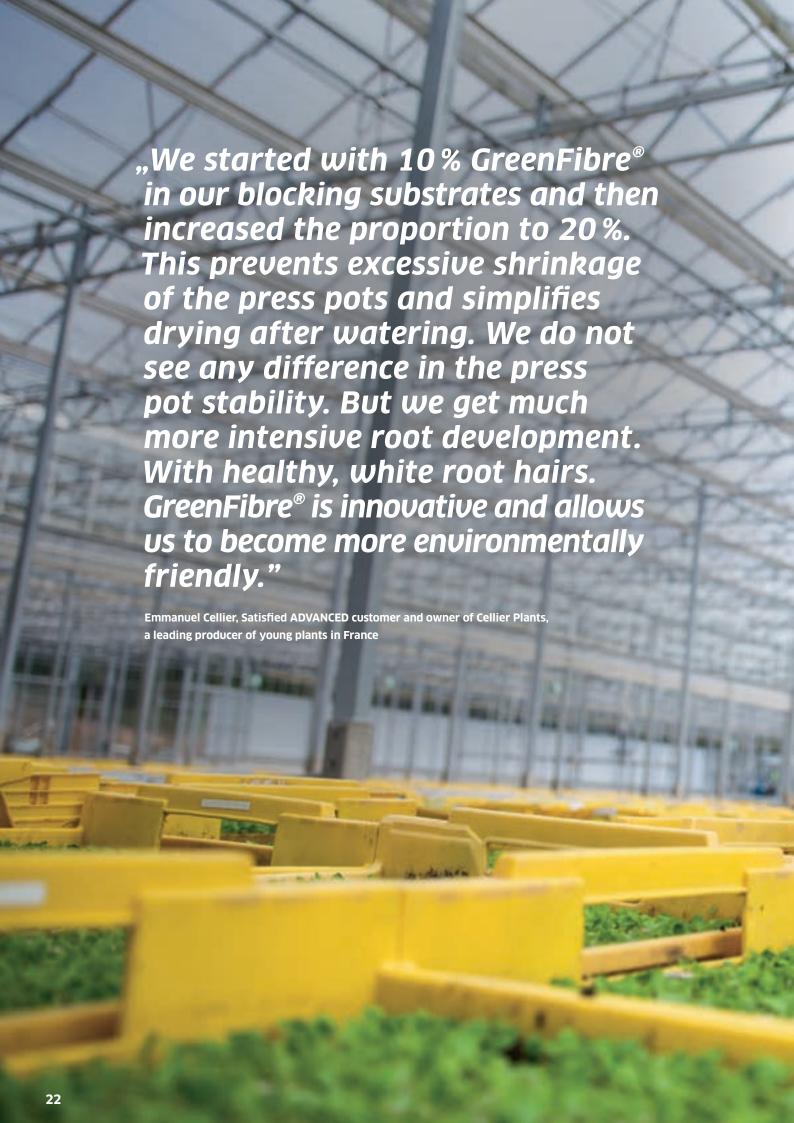




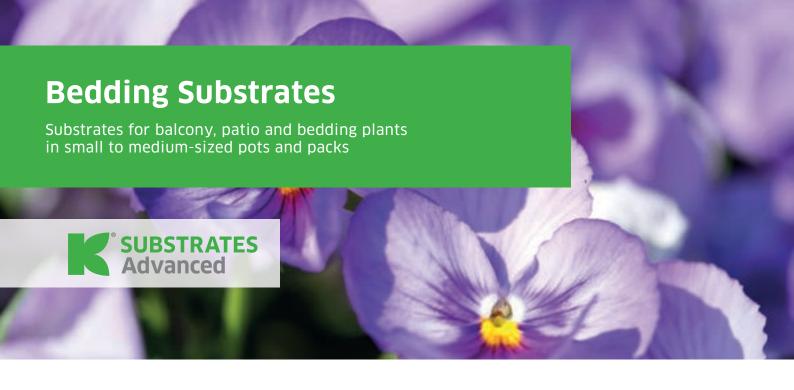




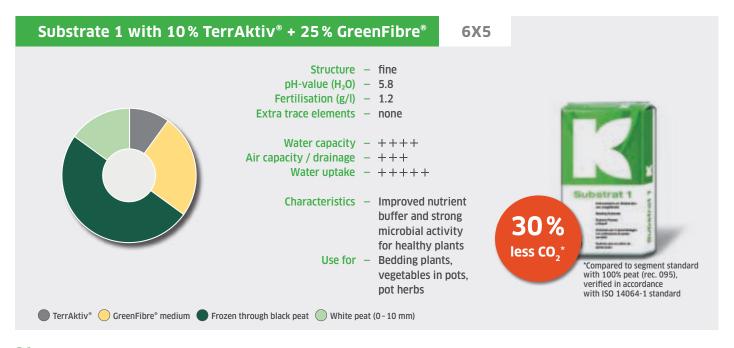


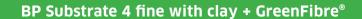




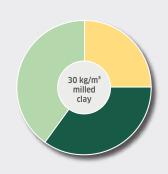








665



Structure - fine pH-value (H<sub>2</sub>0) - 6.0 Fertilisation (g/l) - 1.2 Extra trace elements - none

Water capacity - ++++ Air capacity / drainage - +++ Water uptake - +++++

> Characteristics - High water retention combined with

> > improved drainage

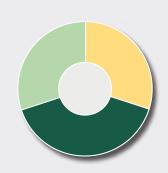
Use for - Bedding and patio plants



BP Substrate 2 medium + GreenFibre®

GreenFibre® medium ■ Frozen through black peat ○ White peat (0 - 10 mm)

698



Structure - medium pH-value (H<sub>2</sub>0) - 6.0 Fertilisation (g/l) - 1.2 Extra trace elements - ✓

Water capacity - ++++ Air capacity / drainage - +++ Water uptake - ++++

> Characteristics – Allround bedding mix with good structure

and drainage Use for - Bedding and patio plants



\*Compared to segment standard with 100% peat (rec. 262), verified in accordance with ISO 14064-1 standard

GreenFibre® medium Frozen through black peat White peat (0-25 mm)

## BP Substrate 2 medium with clay + GreenFibre®

716



Structure - medium pH-value (H<sub>2</sub>0) - 6.0 Fertilisation (g/l) - 1.0 Extra trace elements - ✓

Water capacity - ++++ Air capacity / drainage - +++
Water uptake - +++++

> Characteristics - Good structure and drainage with extra nutrient buffer

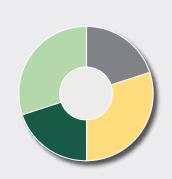
> > Use for -Bedding and patio plants, pot herbs

28% less CO, \*Compared to segment standard with 100% peat (rec. 1C2), verified in accordance with ISO 14064-1 standard

GreenFibre® medium Frozen through black peat White peat (0-25 mm)



872



Structure - medium

pH-value ( $H_2O$ ) - 6.0

Fertilisation (g/l) - 1.0

Extra trace elements - ✓

Water capacity - +++

Air capacity / drainage - +++ Water uptake - ++++

Characteristics - Universal bedding

substrate with stable air capacity and extra

microbial activity

Use for - Bedding and patio

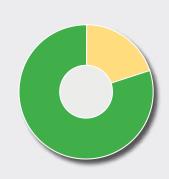
plants, shrubs



■ TerrAktiv® ☐ GreenFibre® medium ■ Frozen through black peat ☐ White peat (0 - 25 mm)

TS 3 medium basic + GreenFibre®

426



Structure - medium

pH-value  $(H_20)$  - 6.0

Fertilisation (g/l) - 1.0

Extra trace elements - √

Water capacity - ++++

Air capacity / drainage - ++

Water uptake - +++

Characteristics - Good water retention

combined with

improved porosity Use for - Bedding plants,

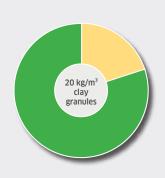
perennials

19% less CO<sub>2</sub> \*Compared to segment standard with 100% peat (rec. 425), verified in accordance with ISO 14064-1 standard

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

### TS 3 medium basic with clay + GreenFibre®

441



Structure - medium

pH-value (H<sub>2</sub>0) - 6.0

Fertilisation (g/l) - 1.0

Extra trace elements - √

Water capacity - ++++

Air capacity / drainage - ++

Water uptake - ++++

Characteristics - Good water retention

combined with

improved porosity

and extra nutrient buffer

Use for - Bedding plants, perennials,

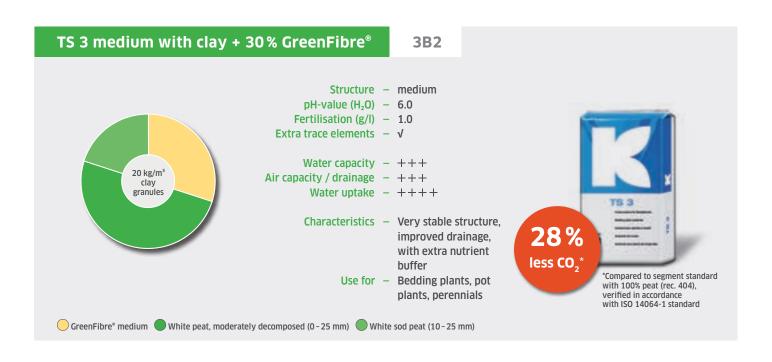
pot herbs

19% less CO,

\*Compared to segment standard with 100% peat (rec. 404), verified in accordance with ISO 14064-1 standard

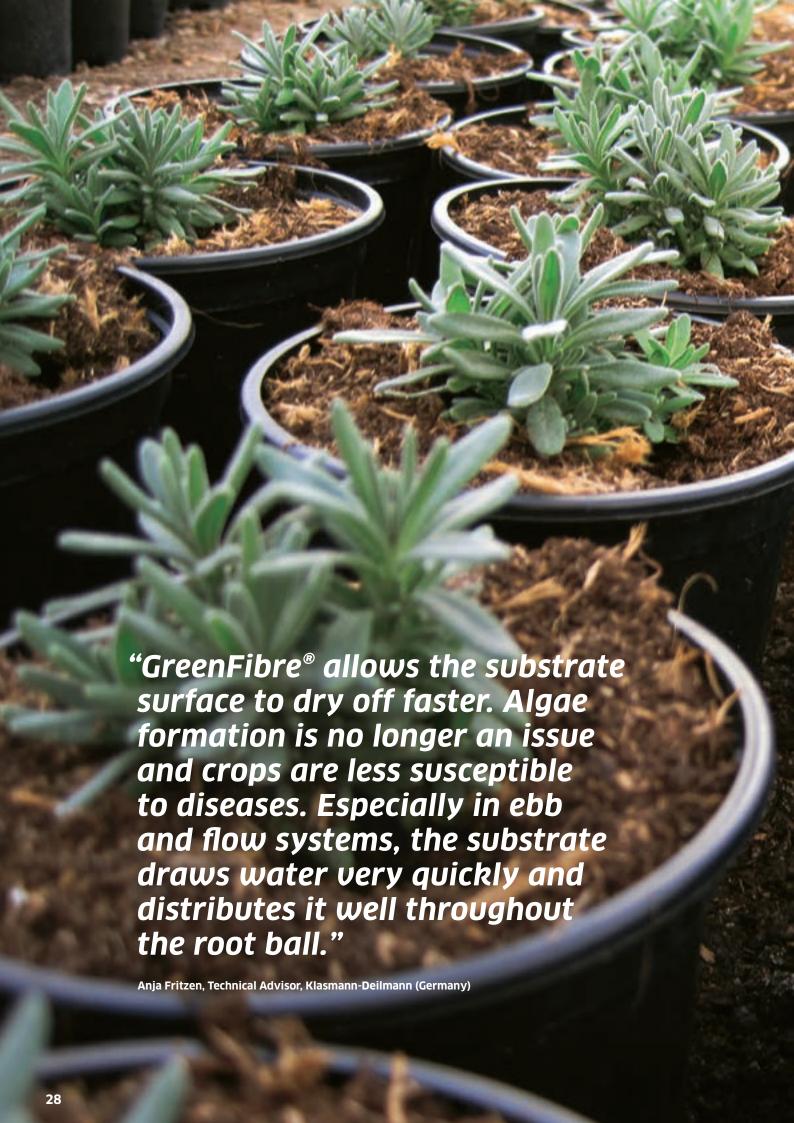
GreenFibre® medium White peat, moderately decomposed (0 - 25 mm)





GreenFibre® medium Coir White peat, moderately decomposed (0 - 25 mm)

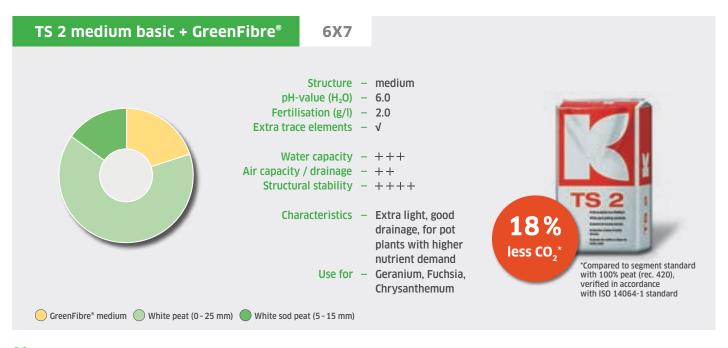






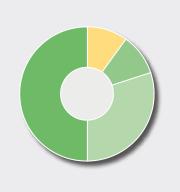








1R4



 $\begin{array}{rcl} & Structure & - & medium \\ pH-value & (H_2O) & - & 6.0 \\ Fertilisation & (g/I) & - & 1.0 \\ Extra trace & elements & - & \checkmark \end{array}$ 

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

Characteristics – Extra light potting mix with improved structural stability, ideal for ebb-flow

irrgation systems
Use for - Ornamental plants,

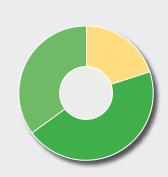
foliage plants

GreenFibre® medium White peat fibres (0 - 30 mm) White peat (0 - 25 mm) White sod peat (10 - 25 mm)



## TS 4 PLUS medium + GreenFibre®

616



Structure – medium pH-value ( $H_2O$ ) – 6.0 Fertilisation (g/l) – 1.0 Extra trace elements –  $\sqrt{\phantom{0}}$ 

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

Characteristics – High structural stability and increased water

retention

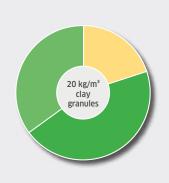
Use for - Ornamental plants, foliage plants



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

## TS 4 PLUS medium with clay + GreenFibre®

816



 $\begin{array}{cccc} & Structure & - & medium \\ pH-value & (H_2O) & - & 6.0 \\ Fertilisation & (g/I) & - & 1.0 \\ Extra & trace & elements & - & \checkmark \end{array}$ 

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

Characteristics – Good structure, increased water retention, extra nutrient buffer

Use for - Ornamental plants, foliage plants

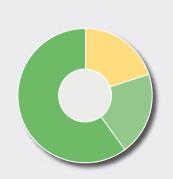
18 %
less CO<sub>2</sub>\*

'Compared to segment standard with 100% peat (rec. 690), verified in accordance with ISO 14064-1 standard

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



**T89** 



Structure - coarse

pH-value ( $H_2O$ ) - 6.0

Fertilisation (g/l) - 1.0

Extra trace elements - ✓

Water capacity - ++

Air capacity / drainage - +++++

Structural stability - +++++

Characteristics - Very high air capacity

and drainage for best root development

Use for - Foliage plants,

Anthurium, Calathea,

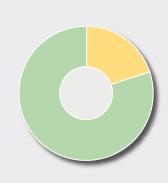
Cyclamen

19% less CO, \*Compared to segment standard with 100% peat (rec. 681), verified in accordance with ISO 14064-1 standard

Base Substrate 2 medium basic + GreenFibre®

GreenFibre® medium White peat fibres coarse-fibrous White sod peat (25 - 45 mm)

6X8



GreenFibre® medium White peat (0-25 mm)

Structure - medium

pH-value (H<sub>2</sub>0) - 6.0

Fertilisation (g/l) - none

Extra trace elements - √

Water capacity - +++

Air capacity / drainage - ++

Structural stability - ++++

Characteristics - To mix with fertiliser

on site or alongside liquid feed

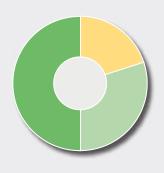
Use for - Bedding and pot plants



\*Compared to segment standard with 100% peat (rec. 422), verified in accordance with ISO 14064-1 standard

Base Substrate 4 medium + GreenFibre®

523



Structure - medium

pH-value ( $H_2O$ ) - 6.0

Fertilisation (g/l) - none

Extra trace elements - √

Water capacity - ++

Air capacity / drainage - +++

Structural stability - ++++

Characteristics - To mix with fertiliser

on site or alongside

liquid feed

Use for - Ornamental plants,

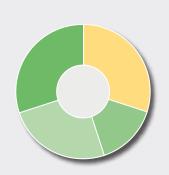
foliage plants



GreenFibre® medium White peat (0-25 mm) White sod peat (10-25 mm)



9**B**4



Structure - coarse

pH-value  $(H_2O)$  - 6.0

Fertilisation (g/l) - none

Extra trace elements - √

Water capacity - ++

Air capacity / drainage - ++++ Structural stability - +++++

Characteristics - To mix with fertiliser

on site or alongside liquid feed

Use for - Ornamental plants,

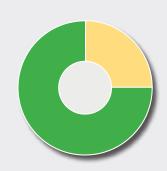
foliage plants



GreenFibre® medium White peat fibre (70 mm) White peat (0-25 mm) White sod peat (25-45 mm)

## Base Substrate 5 PLUS + GreenFibre®

540



Structure - medium

pH-value (H<sub>2</sub>0) - 6.0

Fertilisation (g/l) - none

Extra trace elements - √

Water capacity - ++++

Air capacity / drainage - ++

Structural stability - +++

Characteristics – To mix with fertiliser

on site or alongside

liquid feed

Use for - Bedding and pot plants

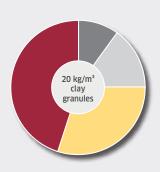
23% less CO,

\*Compared to segment standard with 100% peat (rec. 600), verified in accordance with ISO 14064-1 standard

## Substrate 5 TerrAktiv®/coir + GreenFibre®

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

**5L9** 



Structure - medium

pH-value  $(H_2O)$  - 6.5

Fertilisation (g/l) - 1.0

Extra trace elements - ✓

Water capacity - ++

Air capacity / drainage - ++++

Structural stability - ++++

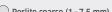
Characteristics - Universal potting mix

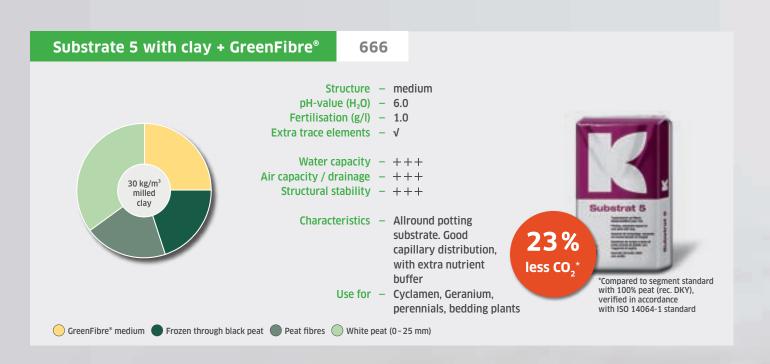
with strong drainage and fast water uptake

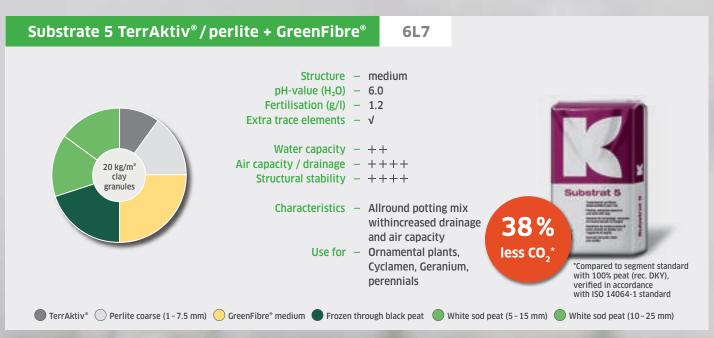
Use for - Poinsettia, Cyclamen,

Begonia









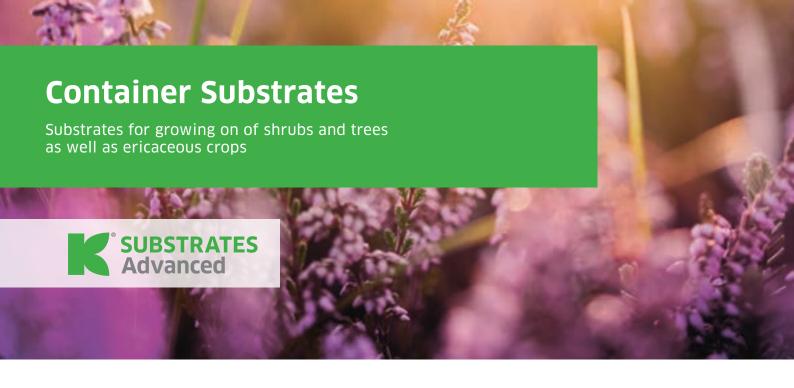


"Helleborus is a niche product. This is where the right substrate recipe is essential. We see great success with TerrAktiv® and GreenFibre® in our mixture. The plants are stronger, more compact and resistant. We are very grateful to have such a reliable partner in Klasmann-Deilmann."

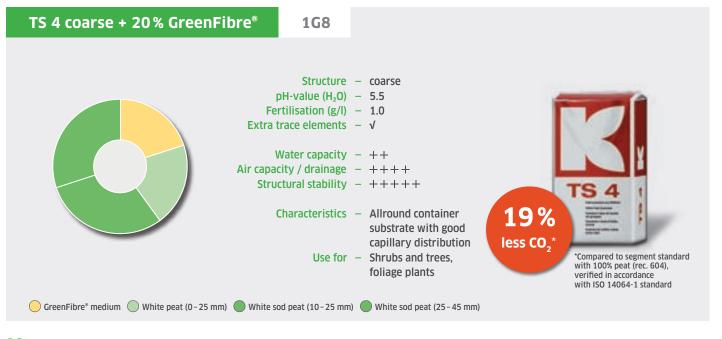
Thierry van Paemel, Satisfied ADVANCED customer

Co-owner of BVBA Helleborus. a leading producer of Helleborus in Belgium



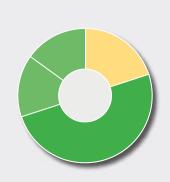








620



Structure - coarse pH-value ( $H_2O$ ) - 6.0

Fertilisation (g/l) - 1.0

Extra trace elements - ✓

Water capacity - +++ Air capacity / drainage - +++

Structural stability - ++++

Characteristics - Allround container

substrate with increased water retention

Use for - Shrubs and trees,

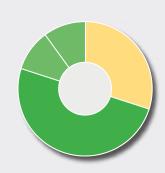
foliage plants



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

#### TS 4 PLUS coarse + 30 % GreenFibre®

**P24** 



Structure - coarse

pH-value (H<sub>2</sub>0) - 5.5

Fertilisation (g/l) - 1.0

Extra trace elements - √

Water capacity - +++

Air capacity / drainage - +++

Structural stability - ++++

Characteristics - High structural stability

and increased drainage

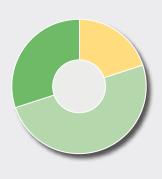
Use for - Shrubs and trees, foliage plants



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

#### TS 4 Ericaceous + GreenFibre®

254



Structure - medium

pH-value  $(H_2O)$  - 4.8

Fertilisation (g/l) - none

Extra trace elements − √

Water capacity - ++

Air capacity / drainage - ++++

Structural stability - +++++

Characteristics – For crops with acidic

soil requirements

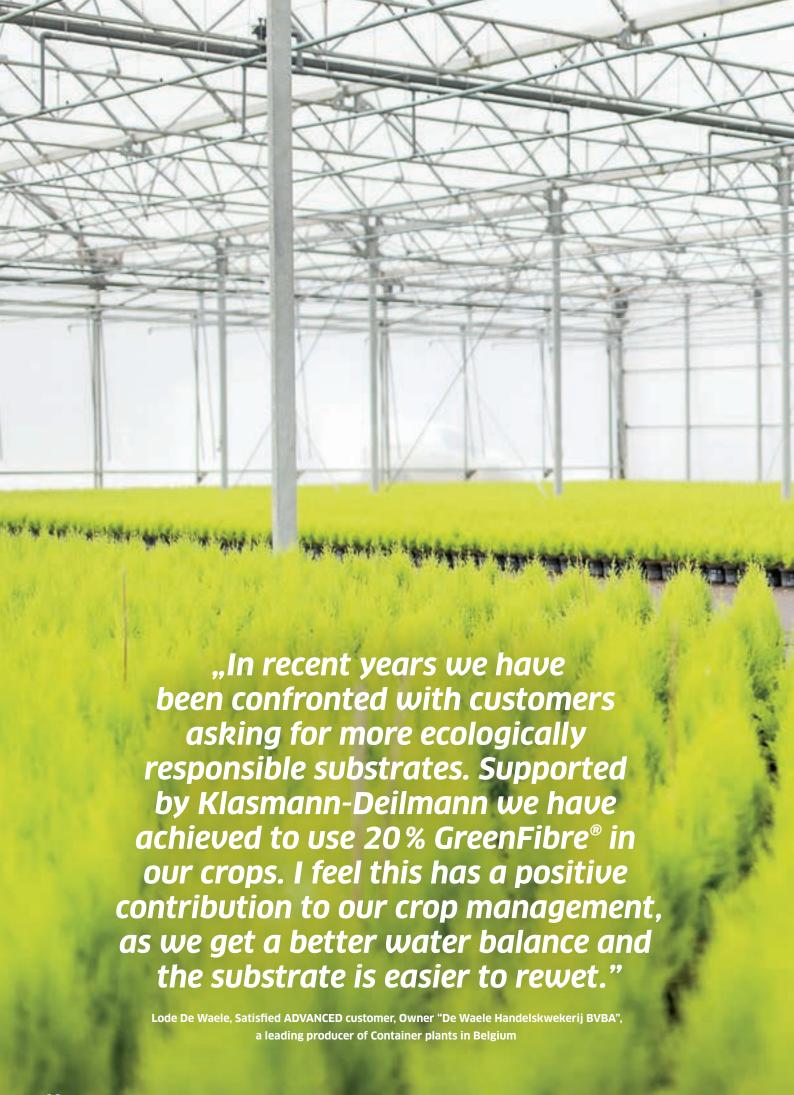
Use for - Ericaceous plants,

Gardenia, Camelia,

Gaultheria



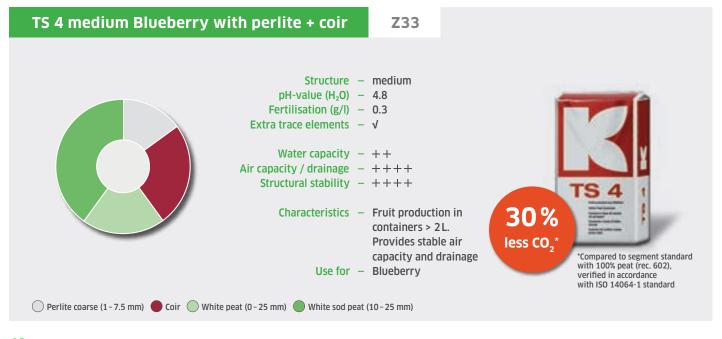
GreenFibre® medium White peat (0-25 mm) White sod peat (10-25 mm)

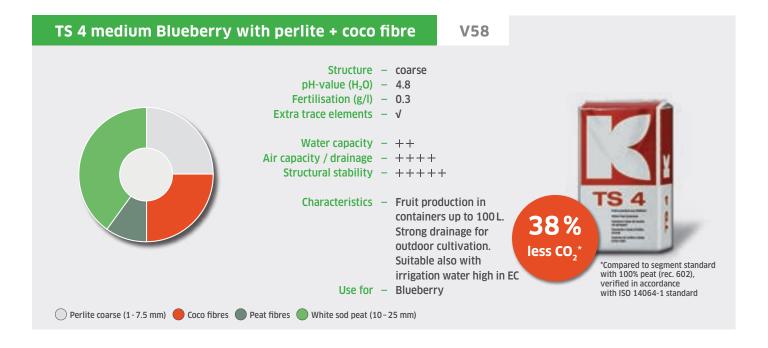


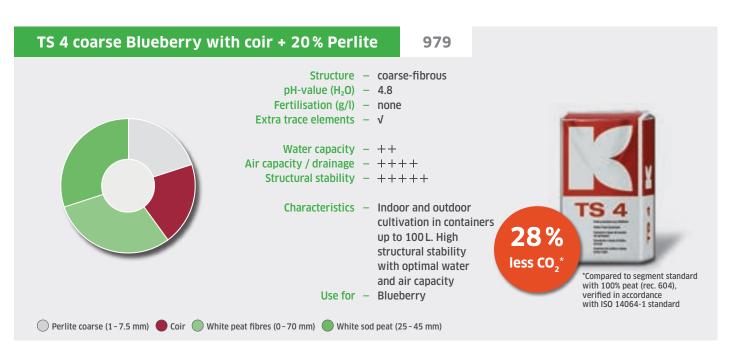


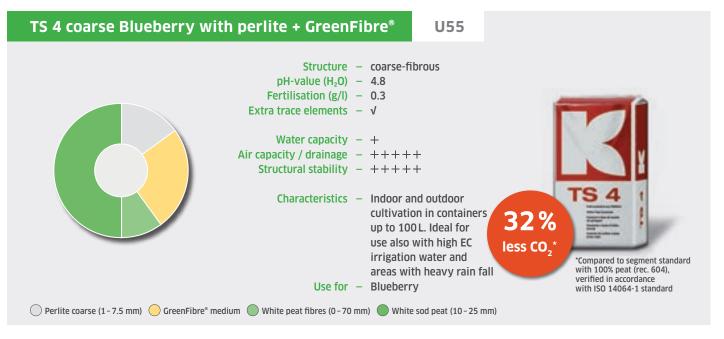


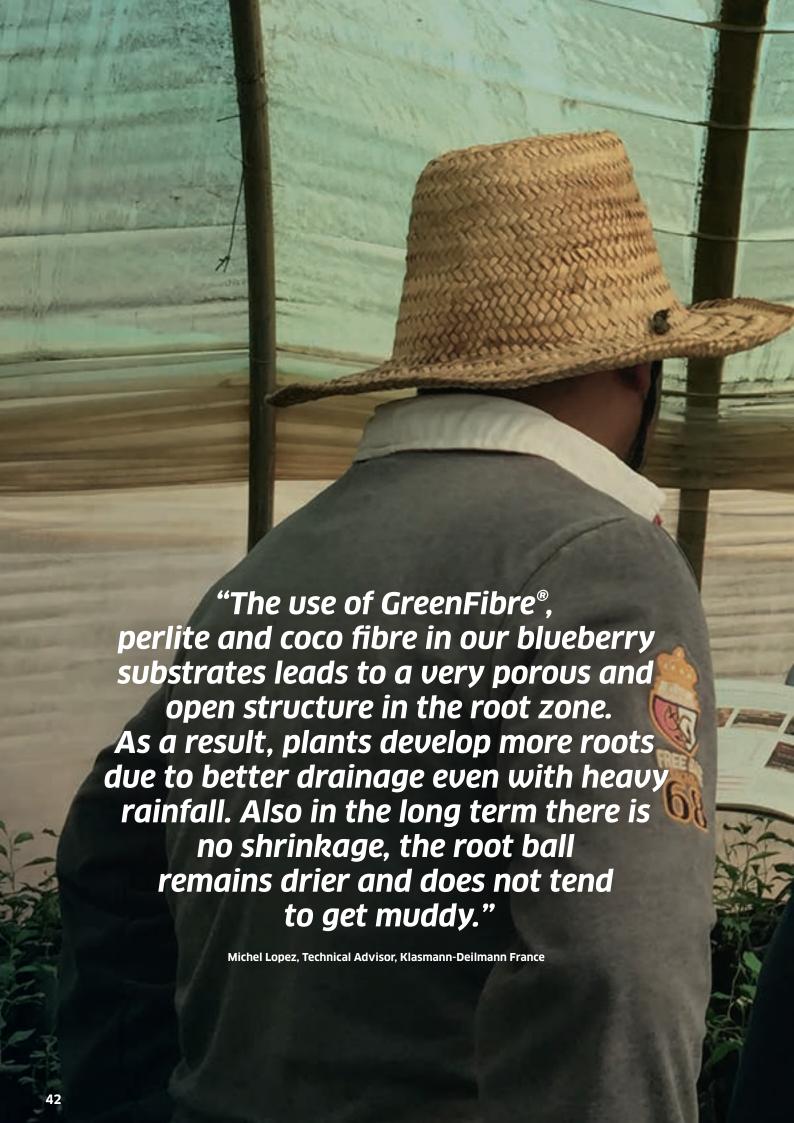






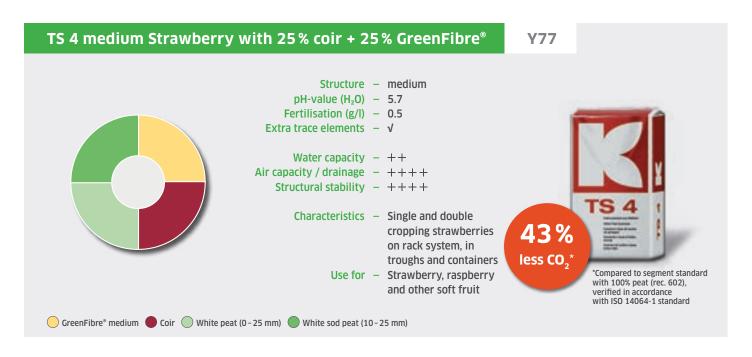


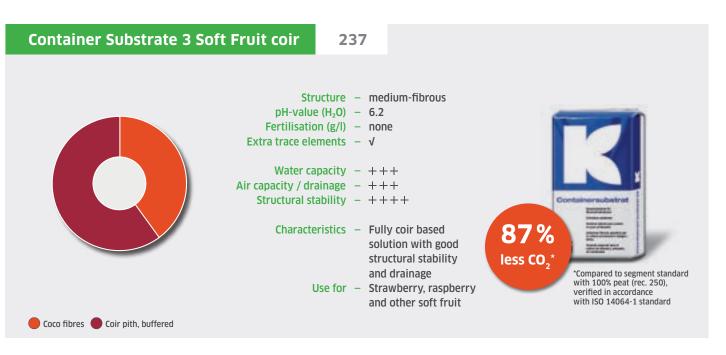












"Our substrates with GreenFibre" for strawberries in gutters have proven to be a great alternative to coir. GreenFibre" ensures structural stability and drainage also for perennial cultivation. Moreover, GreenFibre" leads to a lower substrate weight and less CO<sub>2</sub> emissions. As a renewable raw material, it is locally sourced from sustainably managed forestry and well available all year."

Frank Lenkens, Soft Fruit Specialist, Klasmann-Deilmann Benelux (Netherlands) Find out more about our ADVANCED Strawberry Substrates smann-Deilmann | Evolution of Growing Media | Soft Fruit Subst



# ADVANCED Substrates – The forms of supply

Our substrates are available in following standard forms



Packaged goods: 70-litre-bags



Big Bales 2.5 - 6.0 m<sup>3</sup>



Packaged goods: 210-litre-bags



Bulk

For all growing media manufactured by Klasmann-Deilmann, the volume is measured in accordance with European Standard EN 12580. The standard lays down the procedure to be used for measuring the volume of growing media and other peat products which are supplied in bulk or as packaged products. The quantity indication generally relates to the quantity at the time of production.



#### Average substrate consumption for different pot sizes

Pot size ø in cm	Substrate requirement in I for 1,000 pots**	Number of pots per m³ substrate*
6	130-160	6900
8	230-280	3,920
9	330-380	2,820
9 x 9 x 9,5	600-650	1,600
10	460-510	2,060
10 x 10 x 11,5	920-970	1,050
11	670-720	1,440
12	880-930	1,150
13	1,100-1,200	870
1.5 l cont.	1,700-2,000	540
2.0 l cont.	2,300-2,600	410

<sup>\*</sup> Average figures only, based on the volume as per EN 12580. Variations may arise in particular through different pot types, varying substrate moisture levels and the compression during potting. The size of the seedling root ball also has a significant impact.

# More advanced product solutions

## Containermulch

Containermulch is an environmentally friendly top dressing for pots and containers to prevent the growth of algae and weeds. It is made of softwood from sustainably managed forests (PEFC-certified). The wood has been thermally treated to avoid phytosanitary risks.

It is fast drying, permeable to water and breaks up water drops, so the top layer does not become air-tight. This makes it more difficult for algae, mosses and weeds to grow. By using Containermulch, the substrate moisture remains more homogeneous and the plants also look visually appealing for marketing. Containermulch can be processed mechanically with all automatic spreaders and is also very suitable for mulching planting beds.





### Growcoon

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. It proves to be particularly effective in sowing, rooting of cuttings, grafting and growing-on of young plants from tissue culture as well as in vertical farming and hydroponic systems. It is available in many different standard sizes and suitable for all common tray sizes. In addition, there is a special Growcoon range for hydroponics.



# Log & Solve

Log & Solve is a digital tool for growers to collect relevant cultivation data in a central web-based platform. The new Log & Solve dashboard allows better insight in your crop to increase the efficiency of cultivation.

Log & Solve supports growers in their crop management by using analytical data and sensor data. It organises all crop-related information which is then automatically bundled, evaluated and graphically visualised. On this basis, undesirable developments in crops can be identified and averted more quickly.



# The Klasmann-Deilmann Group

Klasmann-Deilmann is the leading group of companies in the international substrate industry with numerous sales and production companies in Europe, Asia and America, as well as a network of sales and production partners on all continents. Our growing media provide a vital basis for the growth of vegetables, fruit, edible mushrooms, herbs, ornamental plants, trees and shrubs. They ensure the success of our partners and customers in commercial horticulture and are an essential part of the value chain in the food industry.

Our product portfolio includes growing media and substrate constituents such as peat, wood fibre, green compost, cocos and perlite amongst others. We also market the Growcoon propagation system and are establishing ourselves as a provider of digital solutions for nurseries with the Log & Solve online platform.





#### 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.

