

# Safeguarding your success

**Our substrate range for  
Great Britain | Ireland**



*we make it grow*



# The Klasmann-Deilmann Group

Klasmann-Deilmann is the leading group of companies in the international substrate industry, with sales and production companies in Europe, Asia and America. Our growing media provide the essential basis for plant growing and the success of our partners and customers in the commercial horticultural sector all over the world. We are the most sustainability-minded company in the substrate industry and are also becoming a major supplier in the field of Renewable Energy and Resources.

Our ambitious sustainability strategy includes re-reporting to the GRI-Standards and a carbon footprint verified in accordance with ISO 14064.

Our objective is to achieve sustainable growth and continuing success in all areas of our business. In pursuing these goals, we are able to rely on our employees, who are committed to moving our company forward and whose performance we consistently seek to foster.

Our corporate guidelines, based on our certifications to ISO 9001 and ISO 14001, serve as a constant challenge for us to assume responsibility for people, the environment and coming generations. Our environmental protection measures include the re-wetting of several thousand hectares of former peat extraction land and restoring typical bogland conditions there.

## Overview of our business fields

### SUBSTRATES

 SUBSTRATES  
Easy Growing

 SUBSTRATES  
Select

 SUBSTRATES  
Florabella

### RAW MATERIALS

 RAW MATERIALS  
GreenFibre

 RAW MATERIALS  
TerrAktiv/FT

 RAW MATERIALS  
Peat

 RAW MATERIALS  
Containermulch

### BIOENERGY

 BIOENERGY  
Wood Chips

 BIOENERGY  
Wood Trading

 BIOENERGY  
Wood Services

### INNOVATION

 INNOVATION  
Academy

 INNOVATION  
Growcoon

# Professional substrates tailor-made for growers in Great Britain and Ireland

Klasmann-Deilmann Ireland Ltd., our factory in the heart of the Republic of Ireland, is producing specialised growing media tailor-made to the needs of British and Irish horticulture. Here, as well as in all our international production sites, we manufacture our products in compliance with the Dutch RHP quality system, which sets the strictest technical quality standard for growing media ([www.rhp.nl](http://www.rhp.nl)).



The primary raw material for professional substrates remains our responsibly sourced Irish peat. White peat, black peat and specifically harvested white sod peat fractions have proven to be the crucial backbone of high quality growing media. By using these specific peat raw materials, the physical properties can be adjusted exactly to the need of the crop and the growing system.

## Overview of physical characteristics of different white peat raw materials

Type of peat fraction	Air capacity / drainage			Water uptake characteristic (WOK)		Application (due to structural stability)	
	Low	Medium	High	Fast (class 1/2)	Slow (class 3/4)	Short term crops	Medium and long term-crops
White sod peat fractions		✓	✓	✓		✓	✓
Fractions from milled peat	✓	✓			✓	✓	

Source: RHP MG's-Gravenzande, The Netherlands





## Premium constituents made by Klasmann-Deilmann

Many other constituents are used alongside peat whenever required due to technical or commercial demand. This includes GreenFibre® (wood fibre produced by Klasmann-Deilmann), coir and coco fibres, perlite, composted bark as well as various clay types and our own certified green compost TerrAktiv®.

Peat free and peat reduced substrates are available as well as organic substrates adhering to OF&G and Soil Association standards. Figures from the UK's sustainably sourced growing media model as well as from various other LCA calculation systems are available on request. Moreover, we have set ourselves demanding strategic goals for increasing the use of sustainable constituents. Details – also related to the product carbon footprint (PCF) of our growing media – can be found in our sustainability reports.

Our latest innovation within this effort towards improved sustainability is the new peat reduced blocking substrate, which for the first time uses fine GreenFibre®. Superior root development and very healthy plant growth have proven to go hand in hand with optimised loading volumes and high block stability.



## Quality-assured raw materials for substrates

All processes and raw materials used at Klasmann-Deilmann are subject to stringent specific quality control systems such as RHP, ISO 9001 and many others.

Retained samples are kept sealed and cooled for at least six months in order to support growers with analysis during cultivation if required, this alongside our crop substrate support service.



ISO 9001



ISO 14001



ISO 14064



RHP



FSC



PEFC



(EC)  
No. 834/2007



GRI  
Standards



OF&G



Soil  
Association



# The forms of supply

Substrates are available in the following standard forms\*

	Packaged goods: 70-litre-bags	
	Packaged goods: 200-litre- bags	
	Big Bales	
	Bulk-Bags (FIBC)	
	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.

\*The country flags used in this product brochure express the country of origin and manufacture for the different products and forms of supply. All products shown in this brochure are subject to minimum order volumes. For further information please contact your local sales representative of Klasmann-Deilmann.

Average substrate consumption for different pot sizes

Pot size ø in cm	Substrate requirement in l for 1,000 pots**	Number of pots per m <sup>3</sup> 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

\*\* 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.



# PROPAGATION SUBSTRATES

Seedling and tray substrates for the propagation of vegetable and ornamental young plants



Substrate

Seedling Substrate

Tray Substrate

Tray Substrate  
with 500gr fertiliser

IS Tray Substrate

Recipe-No.

080

060

099

506

Composition

Coir, buffered

Frozen through  
black peat

White sod peat  
(1 – 7 mm)

White peat  
(0 – 5 mm)

Frozen through  
black peat

White peat  
(0 – 5 mm)

Frozen through  
black peat

Irish white peat  
(0 – 5 mm)

Clay

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

6.0

6.0

5.8

6.0

Fertilisation (g/l)

0.7

1.3

0.5

1.0

Extra trace elements



Wetting agent



Structure

extra fine

extra fine

extra fine

extra fine

Use for

Salt-sensitive  
ornamental plants,  
e. g. Begonia semper-  
florens, Impatiens,  
Growcoon pots

Vegetable and  
tobacco seedlings

Vegetable and  
ornamental seedlings

Vegetable seedlings,  
ornamental seedlings

Frozen through black peat

Peat fibres

White peat, moderately decomposed

White peat fibres

White peat



IS Steckmedium

**524**

Perlite coarse

Irish white peat  
(0 - 5 mm)

5.5

0.5



extra fine

Rooting of cuttings,  
Growcoon pots



IS Steckmedium  
Paperpot mix  
with perlite

**P05**

Perlite fine

White sod peat  
(1 - 5 mm)

5.5

0.5



extra fine

Young plant cultivation  
from seeds or cuttings  
in paper pots from  
1.5 - 4 cm diameter,  
Growcoon pots



Tray Substrate  
EasyFix

**111**

White sod peat  
(1 - 7 mm)

Frozen through  
black peat

contains biodegradable /  
mineral binding agents

6.0

1.2



extra fine

Ornamental seedlings  
with improved root ball  
stability due to binding  
agents for earlier  
automatic gapping and  
transplanting



Tray Substrate  
EasyFix + Perlite

**066**

Perlite fine

Frozen through  
black peat

White sod peat  
(1 - 7 mm)

contains biodegradable /  
mineral binding agents

6.0

0.6



extra fine

Salt-sensitive seedlings  
and rooting of cuttings.  
Improved root ball  
stability due to binding  
agents for earlier  
automatic gapping and  
transplanting

# BLOCKING SUBSTRATES

Substrates for the propagation of ornamental and vegetable young plants in press pots



Substrate

IS Blocking

IS Blocking  
+ GreenFibre

Recipe-No.

024

W80

Composition

White peat  
'Blocking'

GreenFibre fine

Irish black peat

White peat  
'Blocking'

Irish black peat

Clay

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

6.0

6.0

Fertilisation (g/l)

1.5

1.5

Extra trace elements



Wetting agent



Structure

fine

fine

Use for

Ornamental and  
vegetable young plants

Ornamental and  
vegetable young plants

Frozen through black peat

Peat fibres

White peat, moderately decomposed

White peat fibres

White peat



Substrates for organic plant production



Bio Potgrond

025

TerrAktiv

TerrAktiv FT

Frozen through  
black peat

6.0

organic



fine

Vegetable young plants



Bio Tray Substrate

062

TerrAktiv

Frozen through  
black peat

White peat  
(0 – 5 mm)

6.0

organic



extra fine

Pot herbs,  
vegetable young plants



Bio Substrate 2

027

TerrAktiv

TerrAktiv FT

White peat  
(0 – 25 mm)

Frozen through  
black peat

6.0

organic



medium

Pot herbs, vegetable  
young plants



Bio Herb Substrate

693

TerrAktiv

TerrAktiv FT

GreenFibre fine

White sod peat (5 – 15 mm)

Frozen through  
black peat

White peat  
(0 – 25 mm)

6.0

organic







medium

Pot herbs, tomato,  
pepper, cucumber

# BEDDING SUBSTRATES

Substrates for balcony-, patio- and bedding plants in small- to medium-sized pots and packs

				
Substrate	IS Bedding fine	IS Bedding fine + GreenFibre	IS Bedding fine with clay	IS Bedding fine 1.5kg fert., pH 5.5
Recipe-No.	511	611	661	247
Composition	<div>Irish white peat (5-10 mm)</div> <div>Irish white peat (0-5 mm)</div>	<div>GreenFibre</div> <div>Irish white peat (5-10 mm)</div> <div>Irish white peat (0-5 mm)</div>	<div>Irish white peat (5-10 mm)</div> <div>Irish white peat (0-5 mm)</div>	<div>Irish white peat (5-10 mm)</div> <div>Irish white peat (0-5 mm)</div>
Clay			✓ clay granules	
pH-value (H <sub>2</sub> O)	6.0	6.0	6.0	5.5
Fertilisation (g/l)	1.0	1.0	1.0	1.5
Extra trace elements	✓	✓	✓	✓
Wetting agent	✓	✓	✓	✓
Structure	fine	fine	fine	fine
Use for	Bedding and patio plants, pot herbs	Bedding and patio plants, pot herbs	Bedding and patio plants	Bedding and patio plants

A full range of peat free and peat reduced mixes is available on request.





IS Bedding fine  
with clay + GreenFibre

**512**

GreenFibre

Irish white peat  
(5-10 mm)

Irish white peat  
(0-5 mm)

✓ clay granules

5.5

1.4

✓

✓

fine

Bedding and  
patio plants



IS Bedding fine  
Primula mix

**146**

Irish white peat  
(5-10 mm)

Irish white peat  
(0-5 mm)

✓ clay granules

5.5

1.4

✓

✓

fine

Bedding and patio  
plants, Primula



IS Bedding fine  
Pansy/Prim mix

**148**

Irish white peat  
(5-10 mm)

Irish white peat  
(0-5 mm)

✓ clay granules

5.5

0.9

✓

✓

fine

Specialised mix for  
Pansy and Primrose in  
pots and small pots  
with additional Iron



IS Bedding fine  
Bulb mix

**320**

Irish white peat  
(5-10 mm)

Irish white peat  
(0-5 mm)

✓ clay granules

6.6

0.5

✓





✓

fine






Bulbs

# POTTING SUBSTRATES

Substrates for growing on of indoor pot plants

				
Substrate	IS Pot Bedding	IS Pot Bedding with clay	IS Pot Bedding + GreenFibre	IS Potting fine with clay + GreenFibre
Recipe-No.	653	547	546	657
Composition	Irish white peat (0 - 25 mm)	Irish white peat (0 - 25 mm)	GreenFibre Irish white peat (0 - 25 mm)	GreenFibre Irish white sod peat (5 - 10 mm) Irish white peat (5-10 mm) Irish white peat (0 - 5 mm)
Clay		✓ clay granules		✓ clay granules
pH-value (H <sub>2</sub> O)	6.0	6.0	6.0	5.7
Fertilisation (g/l)	1.5	1.5	1.5	1.0
Extra trace elements	✓	✓	✓	✓
Wetting agent	✓	✓	✓	✓
Structure	medium	medium	medium	fine - medium
Use for	Bedding plants in larger pots and baskets	Bedding plants in larger pots and baskets	Bedding plants in larger pots and baskets	Cyclamen, pot plants

A full range of peat free and peat reduced mixes is available on request.

 Frozen through black peat
  Peat fibres
  White peat, moderately decomposed
  White peat fibres
  White peat





IS Potting medium

**683**

Irish white sod peat  
(10 – 25 mm)

Irish white peat  
(0 – 25 mm)

6.0

1.0



medium

Pot plants, foliage plants, shrubs. Specific use of Irish sod peat for ideal structural stability and drainage



IS Potting medium  
+ GreenFibre

**682**

GreenFibre

Irish white sod peat  
(10 – 25 mm)

Irish white peat  
(0 – 25 mm)

6.0

1.0



medium

Pot plants, foliage plants, shrubs. Specific use of Irish sod peat for ideal structural stability and drainage



IS Potting medium  
with clay + GreenFibre

**736**

Perlite

GreenFibre

Irish white sod peat  
(10 – 25 mm)

White peat fibres

Irish white peat (5 – 10 mm)

Irish white peat (0 – 5 mm)



clay granules

6.0

1.0



medium-fibrous

Poinsettia, pot plants. Specific use of sod peat for ideal structural stability and drainage

# CONTAINER SUBSTRATES

Substrates for growing on of shrubs and trees



Substrate

IS Potting medium  
Basic

IS Potting medium  
Basic + GreenFibre

IS Potting coarse

Recipe-No.

**M74**

**M75**

**740**

Composition

Irish white peat  
(0 – 25 mm)

**GreenFibre**

Irish white peat  
(0 – 25 mm)

Irish white peat  
(10 – 25 mm)

Irish white sod peat  
(10 – 25 mm)

Irish white peat  
(10 – 25 mm)

Irish white peat  
(0 – 25 mm)

Irish white sod peat  
(25 – 45 mm)

Clay

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

5.5

5.5

5.8

Fertilisation (g/l)

1.0

1.0

0.5

Extra trace elements



Wetting agent



Structure

medium

medium

coarse

Use for

Perennials, shrubs

Perennials, shrubs

Ornamental plants, green  
plants, solitaire peren-  
nials in large containers.  
Specific use of sod peat  
for long term structural  
stability and drainage

A full range of peat free and peat reduced mixes is available on request.

Frozen through black peat

Peat fibres

White peat, moderately decomposed

White peat fibres

White peat





**IS Container Substrate  
medium**

**702**

White peat fibres

White sod peat  
(10 – 25 mm)

Irish white sod peat  
(0 – 25 mm)

5.0

0.5



medium-fibrous

Shrubs and trees in pots and containers. Specific use of Irish sod peat for long term structural stability and drainage



**IS Container Substrate  
medium + GreenFibre**

**707**

GreenFibre

Irish white sod peat  
(10 – 25 mm)

Irish white peat  
(0 – 25 mm)

5.0

0.5



medium-fibrous

Shrubs and trees in pots and containers. Specific use of Irish sod peat for long term structural stability and drainage



**IS Container Substrate  
coarse + GreenFibre**

**703**

GreenFibre

Irish white sod peat  
(25 – 45 mm)

Irish white sod peat  
(10 – 25 mm)

Irish white peat  
(0 – 25 mm)



5.0

0.5



coarse-fibrous

Shrubs and trees in large containers. Specific use of Irish sod peat for long term structural stability and drainage



**IS Container Substrate  
Special Grass Mix**

**P01**

GreenFibre

Irish white peat (0 – 5 mm)

Irish white peat (5 – 10 mm)

Irish white peat  
(10 – 25 mm)

Irish white sod peat  
(25 – 45 mm)

4.7

5.0 (incl. CRF)







coarse

Speciality for grasses in containers. Includes 4.5kg Osmocote Exact 8/9M and a special Iron source

# SOFT FRUITS SUBSTRATES

Specialised substrates with ideal properties for best yield

				
Substrate	IS Bedding fine 'Blueberry' propagation	TS1 'Blueberry' propagation	IS Potting medium 'Blueberry' medium + GreenFibre	IS Container Substrate 'Blueberry' coarse + GreenFibre
Recipe-No.	<b>P08</b>	<b>382</b>	<b>P09</b>	<b>P10</b>
Composition	<div>GreenFibre</div> <div>Irish white peat (5 - 10 mm)</div> <div>Irish white peat (0 - 5 mm)</div>	<div>Perlite</div> <div>GreenFibre</div> <div>White peat (0 - 25 mm)</div> <div>White sod peat (5 - 15 mm)</div>	<div>GreenFibre</div> <div>Irish white peat (0 - 25 mm)</div> <div>Irish white sod peat (10 - 25 mm)</div>	<div>GreenFibre</div> <div>Irish white peat (0 - 25 mm)</div> <div>Irish white sod peat (10 - 25 mm)</div> <div>Irish white sod peat (25 - 45 mm)</div>
Clay				
pH-value (H <sub>2</sub> O)	4.8	4.8	4.8	4.8
Fertilisation (g/l)	2.3 (incl. CRF)	0.3	0.3	0.3
Extra trace elements	✓	✓	✓	✓
Wetting agent	✓	✓	✓	✓
Structure	fine	fine-medium	medium	coarse
Use for	Propagation of blueberry young plants in pots and trays. Includes 2.0 kg/m <sup>3</sup> Basacote 12M	Propagation of blueberry young plants in pots and trays	Growing on of blueberries in 1 - 5L container	Cultivation of blueberry in 25 - 100L container. High structural stability due to Irish white sod peat

Frozen through black peat
  Peat fibres
  White peat, moderately decomposed
  White peat fibres
  White peat





**IS Bedding fine**  
**'Soft fruit' propagation**

**142**

Irish white peat  
(0 - 5 mm)

Irish white peat  
(5 - 10 mm)

Irish white sod peat  
(5 - 10 mm)

5.5

2.5 (incl. CRF)



**fine**

Propagation of strawberry, raspberry, black currant etc. in trays and liners. Includes 2.5 kg/m<sup>3</sup> Basacote 9M high K



**BP Substrate 1**  
**'Soft fruit'**  
**propagation coir**

**P11**

**GreenFibre**

**Coir, buffered**

6.0

2.5 (incl. CRF)



**fine**

Propagation of strawberry, raspberry, black currant etc. in trays and liners. Includes 2.5 kg/m<sup>3</sup> Basacote 9M high K



**IS Container Substrate**  
**'Soft fruit' coarse**  
**+ GreenFibre**

**P12**

**GreenFibre**

Irish white peat (0 - 25 mm)

Irish white sod peat  
(10 - 25 mm)

Irish white sod peat  
(25 - 45 mm)

5.5

1.0



**coarse**

Cultivation of soft fruit  
in 2 - 50L container



**Container Substrate 3**  
**'Soft fruit' coir**

**237**

**Coco fibres**

**Coir, buffered**

6.0

1.0



**fine**

Cultivation of soft fruit  
in benches, gutters,  
container

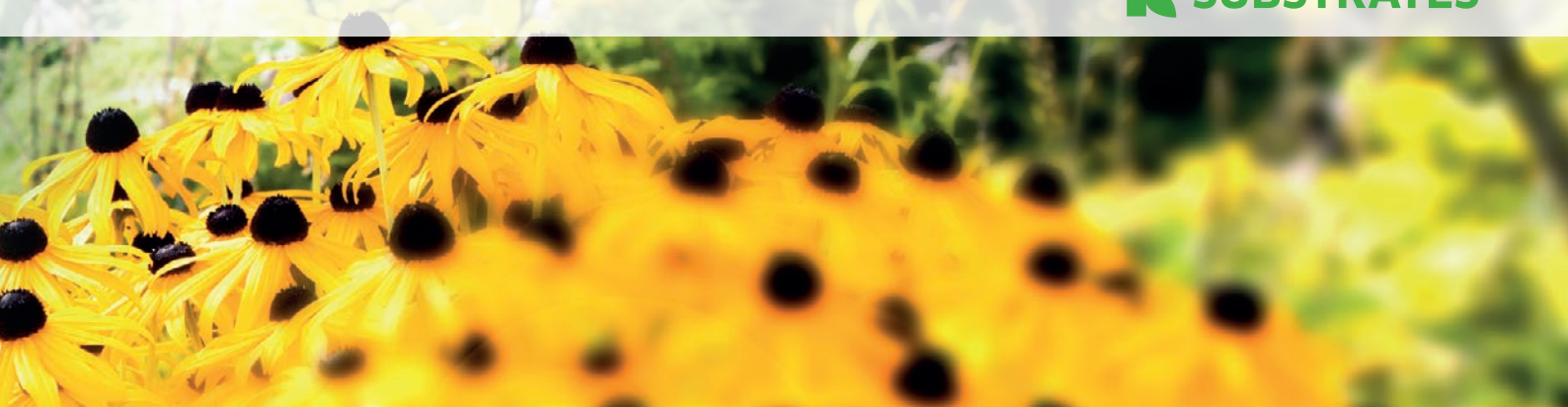
# PEAT MOSS

Pure peat products for self-mixing of growing media and for soil improvement



Substrate	Irish Moss Peat extra fine	Irish Moss Peat fine	Irish Moss Peat medium	Irish Moss Peat medium 'Graded'
Recipe-No.	<b>803</b>	<b>822</b>	<b>818</b>	<b>813</b>
Composition	Irish white sod peat (1 - 5 mm)	Irish white peat (5 - 10 mm)	Irish white peat (0 - 25 mm)	Irish white sod peat (10 - 25 mm)
	Irish white peat (0 - 5 mm)	Irish white peat (0 - 5 mm)		Irish white sod peat (5 - 10 mm)
				Irish white peat (0 - 25 mm)
Clay				
pH-value (H <sub>2</sub> O)	4.0 - 4.5	4.0 - 4.5	4.0 - 4.5	4.0 - 4.5
Fertilisation (g/l)	none	none	none	none
Extra trace elements				
Wetting agent				
Structure	extra fine	fine	medium	medium
Use for	Ericaceous plants, Basis for self-mixing of substrates and soil improvement	Ericaceous plants, Basis for self-mixing of substrates and soil improvement	Ericaceous plants, Basis for self-mixing of substrates and soil improvement. Blueberry bed preparation	Ericaceous plants, Basis for self-mixing of substrates and soil improvement





**Irish Moss Peat  
coarse**

**811**

Irish white sod peat  
(25 – 45 mm)

Irish white sod peat  
(10 – 25 mm)

Irish white peat  
(0 – 25 mm)

4.0 – 4.5

none

coarse

Ericaceous plants,  
Basis for self-mixing  
of substrates and soil  
improvement



**Lithuanian Peat Moss  
fine**

**930**

White peat  
(0 – 5 mm)

4.0 – 4.5

none

extra-fine

Ericaceous plants,  
Basis for self-mixing  
of substrates and soil  
improvement



**Lithuanian Peat Moss  
special 0 - 15 mm**

**969**

White sod peat  
(5 – 15 mm)

White peat  
(0 – 5 mm)

4.0 – 4.5

none

fine-medium

Ericaceous plants,  
Basis for self-mixing  
of substrates and soil  
improvement



**Lithuanian Peat Moss  
medium**

**931**

White peat  
(0 – 25 mm)

4.0 – 4.5

none

medium

Ericaceous plants,  
Basis for self-mixing  
of substrates and soil  
improvement. Blueberry  
bed preparation



**Lithuanian Peat Moss  
coarse**

**932**

White sod peat  
(10 – 25 mm)

White sod peat  
(25 – 45 mm)

White peat  
(0 – 25 mm)

White peat fibres  
(70 mm)

4.0 – 4.5

none

coarse-fibrous

Ericaceous plants,  
Basis for self-mixing  
of substrates and soil  
improvement

Pure GreenFibre products for self-mixing of growing media and for special applications



Product	GreenFibre fine	GreenFibre medium
Recipe-No.	873	895
Composition		
Clay		
pH-value (H <sub>2</sub> O)	5.0	5.0
Fertilisation (g/l)	none	none
Extra trace elements		
Wetting agent		
Structure	fine	medium
Use for	Constituent for self-mixing of substrates	Constituent for self-mixing of substrates



- Prevents moss and algae growth reliably
- Creates an excellent cover with attractive colour
- Very little wash-off during heavy rain or drifting due to strong winds



Product

Containermulch

Recipe-No.

084

Composition



Clay

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

5.5

Fertilisation (g/l)

none

Extra trace elements

Wetting agent

Structure

fine

Use for

For mulching container-grown plants and flower beds







## Important notes

- All the product information contained in this brochure is given to the best of our knowledge and belief. However, it does not claim to be complete or correct for all time. We reserve the right to make changes.
- Fluctuations in the chemical properties of the substrates are within the tolerances allowed under the guidelines of Gütegemeinschaft Substrate für Pflanzen e.V.
- Please view our guidelines for application and use as recommendations only, for which we assume no liability; they may need to be adjusted in line with local conditions and for the intended purpose.
- Please store our products in a cool, dry place and protected from exposure to direct sunlight. We do not assume any liability for improper storage.
- We may also not be held liable for the presence of saprophytic organisms and the possible consequences, e.g. fungal growth.

**DISCLAIMER:** The statements made in this technical information sheet are based on our present knowledge and do not claim to be complete or fully accurate. We reserve the right to make changes. We do not offer any guarantee or accept any liability for individual cases, as all specific circumstances depend on the individual location, storage and growing conditions, which are beyond the reach of our knowledge and influence. The information given must not be considered as a substitute for individual advice. It is neither binding nor does it form part of a contract for the provision of advice or information.

10/2018

