



**Professional**

# product catalogue

PROFESSIONAL SUBSTRATES

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PEATS

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SOILS

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FERTILISERS

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GRASS PROGRAMME

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[www.raselina.cz](http://www.raselina.cz)

We have gone through an intensive restructuring, innovation and investment programme whose results we now bring you.



**Ing. Rostislav Staněk**

Graduate of VŠSE Plzeň – production process management automated systems – IT, agriculture, forestry, energy. Since 1995 he has been the joint owner and Chair of the Board of Rašelina a.s. – producer and distributor of garden products (substrates, mulches, fertilisers, seeds).

Dear customers, Rašelina a.s. has been operating on the Czech market for almost seventy years now. Over the past five years, the garden product market has transformed – it is highly competitive, with the amount of products on offer continuously expanding, and customer service, marketing and logistics also increasing in quality. Price pressure has also increased, which has often led producers to undertake efficiency measures which frequently result in a decline in the quality of products offered. Because we have never wanted to go down this path, we have gone through an extensive restructuring, innovation and investment process over the past two years, whose results we now bring you:

- In 2013-2015, we managed and co-financed the construction of a new production site for the harvesting and processing of peat in Belarus. In so doing, we acquired a high-quality raw materials base for our products, which we hereby offer. Our objective was to boost our position

in the production of a large amount of professional and hobby substrates.

- We are newly bringing to the market a complete assortment of premium-range substrates with a guaranteed black peat content of the transition and high-moor type, which eliminates the use of chemical wetting agents.
- We are withdrawing our flagship basic range of Rašelina Soběslav substrates from distribution within the Mountfield retail network, and are providing them fully to the traditional market.
- We have begun the use of **new technology** – a mixing and packaging line for our range of hobby and pro fertilisers.
- We have expanded our range of multi-component (blended) HortiCerit mineral fertilisers to include three great products with high added value.
- We have launched a natural plant growth promotion product which helps in planting and growing under the **AlgaHumin brand**, which is based on an improved recipe for the very popular Lignohumin plant growth promotion product.
- And last but not least, **we have optimised our own logistics service** to ensure we can deliver goods of any amount, including minimal amounts, to our customers in max. D+2 mode, a mixing and packaging line for our range of hobby and pro fertilisers.
- You can order our whole product range with home delivery throughout the **Czech Republic or Slovakia** using our web application [www.raselina.cz](http://www.raselina.cz) or our **new e-shop**, or in the standard way via our sales representatives or directly from our Sales Department ([obchod@raseлина.cz](mailto:obchod@raseлина.cz)), where we will be happy to take care of you.

I have honoured a number of principles throughout my professional life:

- I care for company employees and support their development.
- I support the development of our company.
- I respect customers' wishes.
- I don't speak ill of our competitors.

I know that in the long-term these are meaningful and beneficial principles, even though sometimes not everything turns out quite as I had anticipated. I trust my people, the company, and you, our customers.

I look forward to working with you further.

**Rostislav Staněk**

Chair of the Board, Rašelina a.s.

Soběslav, March, 15. 2016

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# Our production and harvesting sites



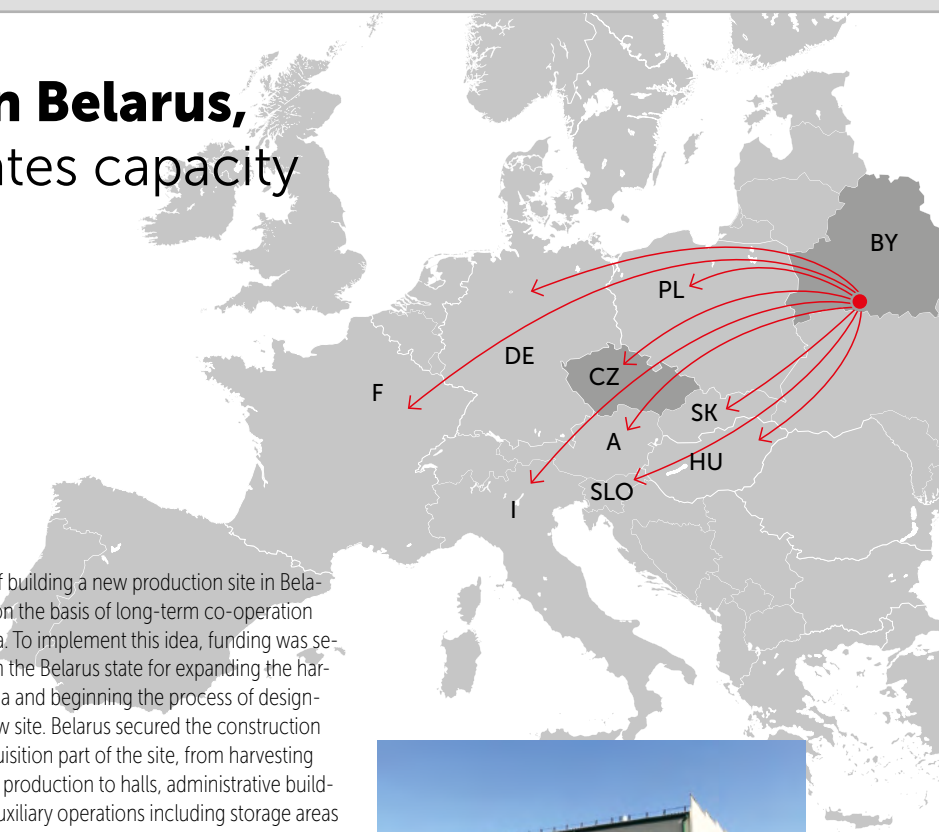
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## New production site **in Belarus,** new peats and substrates capacity



Along with other European partners, Rašelina a.s. has built a new site for processing peats and producing peat substrates in Belarus. In so doing, we have become the principal consulting and business partner for the site.

The idea of building a new production site in Belarus arose on the basis of long-term co-operation with Glinka. To implement this idea, funding was secured from the Belarus state for expanding the harvesting area and beginning the process of designing the new site. Belarus secured the construction of the acquisition part of the site, from harvesting areas- and production to halls, administrative buildings and auxiliary operations including storage areas and roads. We supplied the equipment for sorting peats, a substrate line, packaging line and press in collaboration with Czech, Italian and Estonian companies. The factory was officially opened on 17 September 2015. It is anticipated that successful co-operation will continue for at least another 10 years.



# Peat

Peat is an organic sediment whose properties depend on the plant components it was formed from, and its level of decay. Due to special pores in its structure, all peat has a unique ability to bind to and hold water - water absorption. Peat can absorb over 2000 times its own dry weight of water. Peats are poor in nutrients. High-moor peats are acidic and generally contain a larger proportion of air, which is important in substrates. Low-moor peats are weakly acidic and contain less air, but are rich in humic substances. The humic substances they contain include mainly fulvic and humic acids and their salts. Humic substances are very important for nourishing plants and are an essential part of growing substrates.

Peat is marked by a stable structure with a high proportion of air, which promotes healthy root system development. Its high water absorption ensures sufficient water for optimal growth in growing substrates. Peat does not contain pathogens, weed seeds or other impurities.



## Peat classification

### A) Peat classification system in accordance with ČSN 465730

This standard divides peat into:

- Substrate peats, Class I to III
- Garden and compost peats, Class I to III

### B) Peat classification system according to level of decomposition, according to the Von Post Scale

This system places peat on a scale of H1–H10:

- Slightly decomposed peat, 'light, white' H1–H3
- Moderately decomposed peat, 'brown, dark' H4–H6
- Strongly decomposed peat, 'black' H7–H10

### Division according to origin and botanical composition

When talking about origin and botanical composition, we say, for example, **high-moor sphagnum peat**, **transition Equisetum peat**, etc.

Basic types:

- High-moor peats
- Transition peats
- Low-moor peats

Basic varieties:

- Sphagnum peat
- Eriophorum peat
- Equisetum peat



Table of correlation between peats classified in accordance with the ČSN 465730 standard and peats classified by origin.

Peat according to ČSN 465730	Class	High-moor	Transition	Low-moor
Substrate peat	Class I	yes	yes	no
	Class II	no	no	yes
	Class III	yes	yes	yes
Garden and compost peat	Class I	yes	yes	yes
	Class II	yes	yes	yes
	Class III	no (peat soil)	no (peat soil)	no (peat soil)

### Peat bogs

Peat bogs are places of a wetland nature where specific conditions lead to the formation of peat. They are wet, cold, acidic biotopes poor in nutrients. Peat is formed here by the deposition of layers of dead plant material and its peatification (ulmification). The plant material generally comprises typical wetland species: obtuse peat moss (*sphagnum obtusum*), haircap moss (*polytrichum strictum*), cottongrass (*Eriophorum vaginatum*), sedges (*Cyperaceae*) and horsetail (*Equisetum*). Rašelina a.s. is the only company peat in the Czech Republic to harvest peat for use in producing growing substrates for gardening. Harvesting only takes place outside protected areas using a method which does not have a negative impact on the landscape of the area.

For the needs of professional substrate production and ease of understanding of substrate recipes, two classifications of peat are used based on the division of peat

according to level of decomposition and its related colour.

### Light 'White'

- Low level of decomposition
- High air content
- Water bound with less force
- Fibrous structure
- Lower density

### Dark 'Black'

- Higher level of decomposition
- High humic substances content
- Water bound with greater force
- Fine structure
- Higher density



# Harvesting methods

## Milling peat

The harvested areas are divided into a network of drainage channels in a geometric shape reminiscent of a chess board. The channels drain excess water, resulting in the partial drying of the peat deposit when sunlight acts on it. As such, harvesting can only occur on sunny days during the hottest months of the year. The cutting machine is a trailed machine with a milling drum which turns and removes a thin layer of peat. This harvested peat is then turned over and dried

until it reaches 50% moisture content. It is then collected by loader vehicles and deposited in stacks. The peat stacks have an imbricated shape to protect them against rain. The peat is then sorted according to particle size into various fractions. Milled peat sorted into fractions (0-20, 0-40) is the basic ingredient for the production of growing substrates.

## Cutting peat

Original hand cutting of peat sods took place in May so the sods had time to dry out over the summer. Before harvesting, the bogs were drained, deforested and the surface layer, or scraw, was removed. A special peat spade was used for harvesting. This was a sharp L-shaped tool which cut out so-called sods, blocks of peat the size of bricks (approx. 10 x 10 x 45 cm). The sods contained up to 85 % water, and thus had to be dried out in the sun. The sods were piled on wheelbarrows and laid out next to the harvested pits, positioned next to each other. After about 10 days, they were put together, always three against each other and the

fourth sod on top. After two to four weeks, they were further stacked into hollow mounds and left like this until winter, when they were transported away from the bog.

Cutting peat now takes place using specialised machines, mechanical diggers or excavators with special blades. Today, the sods are still laid in mounds next to the lines of harvested trenches to dry out. The sods are then crushed and further classified by size of particle into various fractions. Block peat sorted into fractions (5-10, 20-40) is a raw ingredient for growing substrate production.

## DARK "BLACK" PEAT



fine  
0-10 mm



medium coarse  
0-20 mm



peat fibre  
(cottongrass)

## LIGHT BLOCK PEAT



extra fine  
0-5 mm



fine  
5-10 mm



medium coarse  
0-20 mm



coarse  
20-40 mm

## LIGHT "WHITE" MILLED PEAT



fine  
0-5 mm



medium coarse  
0-20 mm



standard  
0-40 mm



extra coarse  
20-40 mm

Peat fraction

# Product **package** types


## Big Bale


- Peats and substrates are pressed when packaged
- Wrapped in stretch PE film (white or clear)
- Volume 2.5 m<sup>3</sup> or 5 m<sup>3</sup> (according to EN 12580)
- 2.5 m<sup>3</sup> packs are supplied on a EUR-pallet.  
5 m<sup>3</sup> packs are supplied on a single 1 x 1.2 m pallet.

## Big Bag


- Peats, substrates and bark mulch is loosely poured into Big Bags
- Jute sack with 4 fastening loops in the upper section, which can be used for attachment when storing by crane
- 2 m<sup>3</sup> or 3 m<sup>3</sup> volume (according to EN 12580)
- 2 m<sup>3</sup> and 3 m<sup>3</sup> packages are supplied on EUR-pallets

### Icons used in the package information for products

 package volume

 no. packs on pallet

 pallet dimensions

 weight



## Bag

- Peats and substrates are pressed when packaged
- PE wrap
- Volume 250 l (according to EN 12580)
- 18 pcs/pal, fixed PE stretch film, single pallet 0.8 x 1.2 m.



# Transport

Transport is mostly secured using our own trucks:



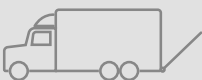
**truck with semi-trailer with load capacity of 24 t**  
sliding floor | 85 m<sup>3</sup> loose material



**truck with trailer with load capacity of 25 t**  
side tilting | 70 m<sup>3</sup> loose



**truck with hydraulic crane front with load capacity of 23 t**  
70 m<sup>3</sup> loose



**lorry with load capacity of 11 t**



**van with load capacity of 1.8 t**







# 1) Professional substrates / peats / soils

Rašelina a.s. is the longest-operating company in the Czech market in the peat harvesting and growing substrate production sector, with almost 70 years of history. Our own harvesting of dark transition peat in the Czech Republic, along with the import of light high-moor peat from our partner Glinka site in Belarus, allows us to supply high-quality peat and growing substrates to the European market. Our stable facilities, in the form of our own peat

bogs, optimal harvesting technologies and newly built production sites, along with many years of savoir-faire, have had a positive impact on the quality of our growing substrates. Our team of experts, who have worked in the peat business for dozens of years, are ready to create professional substrates tailored to the individual requirements of gardeners.



# Substrates for ornamental trees, flowers- and vegetables

## Substrate for sowing and pricking out

1

### Chemical and physical properties

Moisture content in % weight, max.	65
Combustible in dried specimen in % weight, min.	80
pH value (aqueous extract)	5.0-6.5
Electrical conductivity in mS.cm-1 *) max. *) in aqueous extract 1w:25v	0.8

### Composition

Light peat	100 %
Fertiliser	PG-mix
Wetting agent	Fiba – Zorb
Dolomitic limestone	

Light peat **100 %**




### Characteristics

This substrate is produced from a mixture of high-quality, very fine white peats.

### Extent and method of use

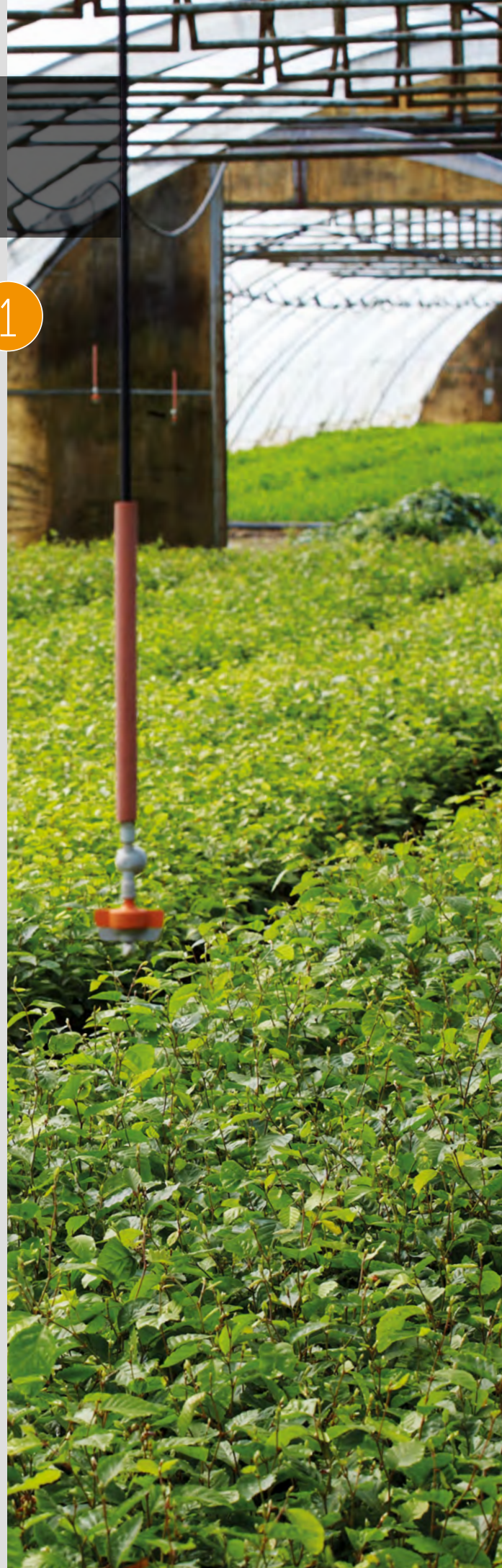
This substrate is suitable for sowing and thinning out all types of vegetables and flowers. It is used for sowing vegetable and plant seeds in trays, boxes and seedling trays. It is particularly suitable for fully automated sowing methods.

### Packaging

			
Bag	250 l	18	1 x 1.2
Big Bag	2 m <sup>3</sup>	1	0.8 x 1.2
Big Bag	3 m <sup>3</sup>	1	0.8 x 1.2
Big Bale	2.5 m <sup>3</sup>	1	0.8 x 1.2
Big Bale	5 m <sup>3</sup>	1	1 x 1.2
loose			



Bag  
250l





# Substrate for potting

2

## Chemical and physical properties

Moisture content in % weight, max.	65
Combustible in dried specimen in % weight, min.	80
pH value (aqueous extract)	5.0-6.5
Electrical conductivity in mS.cm-1 *) max. *) in aqueous extract 1w:25v	1.2

## Composition

Light peat	100 %
Fertiliser	PG-mix
Wetting agent	Fiba – Zorb
Dolomitic limestone	

Light peat **100 %**




## Characteristics

This substrate is produced from a mixture of high-quality white peats with some cut peat.

## Extent and method of use

This substrate is suitable for planting all types of flowers or ornamental trees in pots.

## Packaging

			
Bag	250 l	18	1 x 1.2
Big Bag	2 m <sup>3</sup>	1	0.8 x 1.2
Big Bag	3 m <sup>3</sup>	1	0.8 x 1.2
Big Bale	2.5 m <sup>3</sup>	1	0.8 x 1.2
Big Bale	5 m <sup>3</sup>	1	1 x 1.2
loose			



8 594019 500825

Bag  
250l





# Substrate for containers

3

## Chemical and physical properties

Moisture content in % weight, max.	65
Combustible in dried specimen in % weight, min.	80
pH value (aqueous extract)	5.0-6.5
Electrical conductivity in mS.cm-1 *) max. *) in aqueous extract 1w:25v	1.2

## Composition

Light peat	100 %
Fertiliser	PG-mix
Wetting agent	Fiba – Zorb
Dolomitic limestone	

Light peat **100 %**




## Characteristics

This substrate is produced from a mixture of high-quality white peats with some cut peat.

## Extent and method of use

This substrate is suitable for growing all container-cultivated plants.

## Packaging

			
Bag	250 l	18	1 x 1.2
Big Bag	2 m <sup>3</sup>	1	0.8 x 1.2
Big Bag	3 m <sup>3</sup>	1	0.8 x 1.2
Big Bale	2.5 m <sup>3</sup>	1	0.8 x 1.2
Big Bale	5 m <sup>3</sup>	1	1 x 1.2
loose			



8 594019 500832

Bag  
250l





# Substrate for azaleas and rhododendrons

4

## Chemical and physical properties

Moisture content in % weight, max.	65
Combustible in dried specimen in % weight, min.	80
pH value (aqueous extract)	3.5-5.5
Electrical conductivity in mS.cm-1 *) max. *) in aqueous extract 1w:25v	1.0

## Composition

Light peat	100 %
Fertiliser	PG-mix
Wetting agent	Fiba – Zorb
Dolomitic limestone	

Light peat **100 %**




## Characteristics

This substrate is produced from a mixture of high-quality white peats with some cut peat.

## Extent and method of use

This substrate is suitable for growing acidophilous plants. The substrate is particularly suitable for azaleas, rhododendrons and Canadian blueberries.

## Packaging

			
Bag	250 l	18	1 x 1.2
Big Bag	2 m <sup>3</sup>	1	0.8 x 1.2
Big Bag	3 m <sup>3</sup>	1	0.8 x 1.2
Big Bale	2.5 m <sup>3</sup>	1	0.8 x 1.2
Big Bale	5 m <sup>3</sup>	1	1 x 1.2
loose			



Bag  
250l





# Special substrates for trees

## Substrate for conifer seedlings

5

### Chemical and physical properties

Moisture content in % weight, max.	65
Combustible in dried specimen in % weight, min.	50
pH value (aqueous extract)	4.3-5.3
Electrical conductivity in mS.cm <sup>-1</sup> *) max. *) in aqueous extract 1w:25v	0.8

### Composition

Dark peat	61 %
Light peat	30 %
Silica sand	4 %
Fertiliser	PG-mix, Radigen
Wetting agent	Fiba – Zorb
Dolomitic limestone	

Light peat **30 %**

Dark peat **61 %**

Silica sand **4 %**

### Characteristics

This substrate is produced from a mixture of high-quality black and white peats with added silica sand.

### Extent and method of use

This substrate is suitable for growing conifers from seed. A higher content of black peat containing humus is suitable for growing spruce and fir in plastic tunnels.

### Packaging

			
Big Bag	2 m <sup>3</sup>	1	0.8 x 1.2
Big Bag	3 m <sup>3</sup>	1	0.8 x 1.2
Big Bale	2.5 m <sup>3</sup>	1	0.8 x 1.2
loose			





# Substrate for deciduous seedlings

6

## Chemical and physical properties

Moisture content in % weight, max.	65
Combustible in dried specimen in % weight, min.	45
pH value (aqueous extract)	5.5-6.5
Electrical conductivity in mS.cm-1 *) max. *) in aqueous extract 1w:25v	0.8

## Composition

Dark peat	61 %
Light peat	35 %
Silica sand	4 %
Fertiliser	PG-mix, Radigen
Wetting agent	Fiba – Zorb
Dolomitic limestone	

Light peat **35 %**

Dark peat **61 %**

Silica sand **4 %**

## Characteristics

This substrate is produced from a mixture of high-quality black and white peats with added silica sand.

## Extent and method of use

This substrate is suitable for growing deciduous trees from seed. A higher content of black peat containing humus is suitable for growing beech in plastic tunnels.

## Packaging

			
Big Bag	2 m <sup>3</sup>	1	0.8 x 1.2
Big Bag	3 m <sup>3</sup>	1	0.8 x 1.2
Big Bale	2.5 m <sup>3</sup>	1	0.8 x 1.2
loose			





# Substrate for spruce seedlings with coconut fibre

7

## Chemical and physical properties

Moisture content in % weight, max.	65
Combustible in dried specimen in % weight, min.	50
pH value (aqueous extract)	4.3-5.3
Electrical conductivity in mS.cm-1 *) max. *) in aqueous extract 1w:25v	0.8

## Composition

Dark peat	54 %
Light peat	35 %
Coconut fibre	7 %
Silica sand	4 %
Fertiliser	PG-mix, Radigen
Wetting agent	Fiba – Zorb
Dolomitic limestone	

Light peat **35 %**

Dark peat **54 %**

Silica sand **4 %**

Coconut fibre **7 %**

## Characteristics

This substrate is produced from a mixture of high-quality black and white peats. Coconut fibre prevents substrate sinking.

## Extent and method of use

This substrate is suitable for growing spruce from seed. A higher content of black peat containing humus is suitable for growing spruce and fir in plastic tunnels. The substrate is suitable for growing at sites where drainage of excess water from the substrate is not ideal and sites where there is greater danger of substrate sinking.

## Packaging

			
Big Bag	2 m <sup>3</sup>	1	0.8 x 1.2
Big Bag	3 m <sup>3</sup>	1	0.8 x 1.2
Big Bale	2.5 m <sup>3</sup>	1	0.8 x 1.2
loose			





8

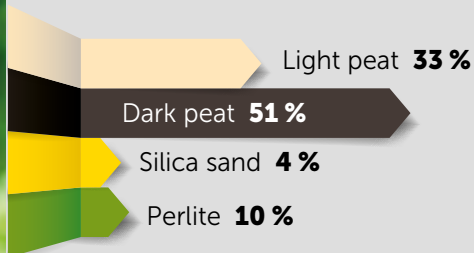
# Substrate for spruce seedlings with perlite

## Chemical and physical properties

Moisture content in % weight, max.	65
Combustible in dried specimen in % weight, min.	50
pH value (aqueous extract)	4.3-5.3
Electrical conductivity in mS.cm-1 *) max. *) in aqueous extract 1w:25v	0.8

## Composition

Dark peat	51 %
Light peat	33 %
Perlite	10 %
Silica sand	4 %
Fertiliser	PG-mix, Radigen
Wetting agent	Fiba - Zorb
Dolomitic limestone	



## Characteristics

This substrate is produced from a mixture of high-quality black and white peats. Perlite aerates the substrate and helps drain excess water from the substrate.

## Extent and method of use

This substrate is suitable for growing spruce from seed. The high content of black peat containing humus is suitable for growing spruce and fir in plastic tunnels. The substrate is suitable for growing at sites where drainage of excess water from the substrate is not ideal and sites where there is greater danger of substrate sinking.

## Packaging

			
Big Bag	2 m <sup>3</sup>	1	0,8 x 1,2
Big Bag	3 m <sup>3</sup>	1	0,8 x 1,2
Big Bale	2,5 m <sup>3</sup>	1	0,8 x 1,2
loose			



# Substrate for potted conifers

9

## Chemical and physical properties

Moisture content in % weight, max.	65
Combustible in dried specimen in % weight, min.	55
pH value (aqueous extract)	4.5-5.5
Electrical conductivity in mS.cm-1 *) max. *) in aqueous extract 1w:25v	1.2

## Composition

Cut light peat	80 %
Dark peat	10 %
Coconut fibre	10 %
Fertiliser	PG-mix, Radigen
Wetting agent	Fiba – Zorb
Dolomitic limestone	

Cut light peat **80 %**

Dark peat **10 %**

Coconut fibre **10 %**

## Characteristics

This substrate is produced from a mixture of high-quality black and white cut peats. Coconut fibre secures long-term non-sinkage.

## Extent and method of use

This substrate is suitable for producing root-covered conifer tree planting stock. The high content of cut peat secures sufficient substrate aeration for the fast growth of seedlings.

## Packaging

			
Big Bag	2 m <sup>3</sup>	1	0.8 x 1.2
Big Bag	3 m <sup>3</sup>	1	0.8 x 1.2
Big Bale	2.5 m <sup>3</sup>	1	0.8 x 1.2
loose			





# Substrate for potted deciduous trees

10

## Chemical and physical properties

Moisture content in % weight, max.	65
Combustible in dried specimen in % weight, min.	55
pH value (aqueous extract)	5.5-6.5
Electrical conductivity in mS.cm-1 *) max. *) in aqueous extract 1w:25v	1.2

## Composition

Cut light peat	45 %
Milled light peat	45 %
Dark peat	10 %
Fertiliser	PG-mix, Radigen
Wetting agent	Fiba - Zorb
Dolomitic limestone	

Milled light peat **45 %**

Cut light peat **45 %**

Dark peat **10 %**

## Characteristics

This substrate is produced from a mixture of high-quality black and white coarse cut peats, securing optimum aeration.

## Extent and method of use

This substrate is suitable for producing root-covered deciduous tree planting stock. The high content of cut peat secures sufficient substrate aeration for the fast growth of seedlings.

## Packaging

			
Big Bag	2 m <sup>3</sup>	1	0.8 x 1.2
Big Bag	3 m <sup>3</sup>	1	0.8 x 1.2
Big Bale	2.5 m <sup>3</sup>	1	0.8 x 1.2
loose			





# Substrate for potted beech

11

## Chemical and physical properties

Moisture content in % weight, max.	65
Combustible in dried specimen in % weight, min.	55
pH value (aqueous extract)	5.5-6.5
Electrical conductivity in mS.cm <sup>-1</sup> *) max. *) in aqueous extract 1w:25v	1.2

## Composition

Cut light peat	45 %
Milled light peat	45 %
Dark peat	10 %
Fertiliser	PG-mix, Radigen
Long-acting fertiliser	
Wetting agent	Fiba – Zorb
Dolomitic limestone	

Milled light peat **45 %**

Cut light peat **45 %**

Dark peat **10 %**

## Characteristics

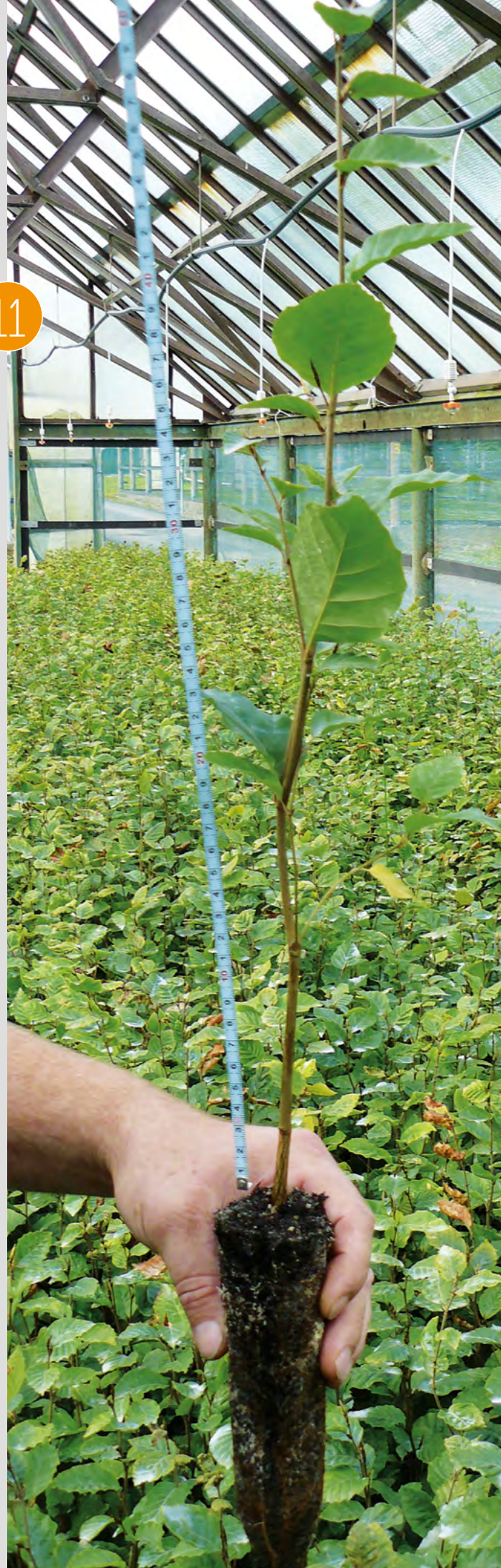
This substrate is produced from a mixture of high-quality black and white cut peats. The substrate contains long-acting fertiliser for fast growth.

## Extent and method of use

This substrate is suitable for producing root-covered forest beech tree planting stock. The high content of cut peat secures sufficient substrate aeration for the fast growth of seedlings. Long-acting fertiliser secures sufficient nutrients. This substrate is suitable for sowing beechnuts directly into seedling containers.

## Packaging

			
Big Bag	2 m <sup>3</sup>	1	0.8 x 1.2
Big Bag	3 m <sup>3</sup>	1	0.8 x 1.2
Big Bale	2.5 m <sup>3</sup>	1	0.8 x 1.2
loose			





# Substrates for ornamental flowers

## Substrate for geraniums

12

### Chemical and physical properties

Moisture content in % weight, max.	65
Combustible in dried specimen in % weight, min.	55
pH value (aqueous extract)	5.5-6.5
Electrical conductivity in mS.cm-1 *) max. *) in aqueous extract 1w:25v	1.2

### Composition

Cut light peat	70 %
Milled light peat	20 %
Dark peat	10 %
Fertiliser	PG-mix, Radigen
Long-acting fertiliser	
Ekobent	
Wetting agent	Fiba – Zorb
Dolomitic limestone	

Milled light peat **20 %**

Cut light peat **70 %**

Dark peat **10 %**



### Characteristics

This substrate is produced from a mixture of high-quality white and black peats in the optimum ratio. The substrate contains fertiliser over the whole growing period. Cut peat prevents sinking and ensures a stable structure which maintains the optimum ratio of air and water. Ekobent helps ensure a stable pH and prevents nutrient loss.

### Extent and method of use

This substrate is suitable for growing geraniums and annuals.

### Packaging

			
Big Bag	2 m <sup>3</sup>	1	0.8 x 1.2
Big Bag	3 m <sup>3</sup>	1	0.8 x 1.2
Big Bale	2.5 m <sup>3</sup>	1	0.8 x 1.2
loose			



# Substrate for surfinias

13

## Chemical and physical properties

Moisture content in % weight, max.	65
Combustible in dried specimen in % weight, min.	55
pH value (aqueous extract)	4.8-6.3
Electrical conductivity in mS.cm-1 *) max. *) in aqueous extract 1w:25v	1

## Composition

Cut light peat	70 %
Milled light peat	20 %
Dark peat	30 %
Fertiliser	PG-mix, Radigen
Long-acting fertiliser	
Ekobent	
Chelated iron	
Wetting agent	Fiba – Zorb
Dolomitic limestone	

Milled light peat **20 %**

Cut light peat **70 %**

Dark peat **10 %**

## Characteristics

This substrate is produced from a mixture of high-quality white and black peats in the optimum ratio. Cut peat prevents sinking and ensures a stable structure which maintains the optimum ratio of air and water. Ekobent helps ensure a stable pH and prevents nutrient loss. Extra iron in chelate form prevents chlorosis.

## Extent and method of use

This substrate is suitable for growing hanging petunias (Surfinia), Calibrachoa (Million Bells) and annual petunias.

## Packaging

			
Big Bag	2 m <sup>3</sup>	1	0.8 x 1.2
Big Bag	3 m <sup>3</sup>	1	0.8 x 1.2
Big Bale	2.5 m <sup>3</sup>	1	0.8 x 1.2
loose			





# Substrate for primroses and violets

14

## Chemical and physical properties

Moisture content in % weight, max.	65
Combustible in dried specimen in % weight, min.	55
pH value (aqueous extract)	5.5-6.5
Electrical conductivity in mS.cm <sup>-1</sup> *) max. *) in aqueous extract 1w:25v	1.2

## Composition

Cut light peat	70 %
Milled light peat	20 %
Dark peat	10 %
Fertiliser	PG-mix, Radigen
Long-acting fertiliser	
Ekobent	
Chelated iron	
Wetting agent	Fiba – Zorb
Dolomitic limestone	

Milled light peat **20 %**

Cut light peat **70 %**

Dark peat **10 %**

## Characteristics

This substrate is produced from a mixture of high-quality white and black peats in the optimum ratio. Cut peat prevents sinking and ensures a stable structure which maintains the optimum ratio of air and water. Ekobent helps ensure a stable pH and prevents nutrient loss. Extra iron in chelate form prevents chlorosis.

## Extent and method of use

This substrate is suitable for growing all species of primrose and pansies.

## Packaging

			
Big Bag	2 m <sup>3</sup>	1	0.8 x 1.2
Big Bag	3 m <sup>3</sup>	1	0.8 x 1.2
Big Bale	2.5 m <sup>3</sup>	1	0.8 x 1.2
loose			





# Substrate for chrysanthemums

15

## Chemical and physical properties

Moisture content in % weight, max.	65
Combustible in dried specimen in % weight, min.	55
pH value (aqueous extract)	5.5-6.5
Electrical conductivity in mS.cm-1 *) max. *) in aqueous extract 1w:25v	1.2

## Composition

Cut light peat	40 %
Milled light peat	30 %
Dark peat	30 %
Fertiliser	PG-mix, Radigen
Long-acting fertiliser	
Ekobent	
Wetting agent	Fiba - Zorb
Dolomitic limestone	

Milled light peat **30 %**

Cut light peat **40 %**

Dark peat **30 %**

## Characteristics

This substrate is produced from a mixture of high-quality white and black peats in the optimum ratio. Cut peat prevents sinking and ensures a stable structure which maintains the optimum ratio of air and water. Ekobent helps ensure a stable pH and prevents nutrient loss. This is a medium-heavy substrate.

## Extent and method of use

This substrate is suitable for growing chrysanthemums.

## Packaging

			
Big Bag	2 m <sup>3</sup>	1	0.8 x 1.2
Big Bag	3 m <sup>3</sup>	1	0.8 x 1.2
Big Bale	2.5 m <sup>3</sup>	1	0.8 x 1.2
loose			





# Substrate for poinsettia

16

## Chemical and physical properties

Moisture content in % weight, max.	65
Combustible in dried specimen in % weight, min.	55
pH value (aqueous extract)	5.5–6.5
Electrical conductivity in mS.cm <sup>-1</sup> *) max. *) in aqueous extract 1w:25v	1.2

## Composition

Cut light peat	60 %
Milled light peat	40 %
Fertiliser	PG-mix, Radigen
Long-action fertiliser	
Chelated iron	
Molybdenum	
Ekobent	
Wetting agent	Fiba – Zorb
Dolomitic limestone	

Milled light peat **40 %**

Cut light peat **60 %**


## Characteristics

This substrate is produced from a mixture of high-quality white peats. Cut peat prevents sinking and ensures a stable structure which maintains the optimum ratio of air and water. Ekobent helps ensure a stable pH and prevents nutrient loss. This is a light substrate. Iron in chelate form prevents chlorosis, and molybdenum promotes the growth of large brightly coloured bracts.

## Extent and method of use

This substrate is suitable for growing all sizes of poinsettia.

## Packaging

			
Big Bag	2 m <sup>3</sup>	1	0.8 x 1.2
Big Bag	3 m <sup>3</sup>	1	0.8 x 1.2
Big Bale	2.5 m <sup>3</sup>	1	0.8 x 1.2
loose			





# Substrate for perennials

17

## Chemical and physical properties

Moisture content in % weight, max.	65
Combustible in dried specimen in % weight, min.	55
pH value (aqueous extract)	5.5–6.5
Electrical conductivity in mS.cm-1 *) max. *) in aqueous extract 1w:25v	1.2

## Composition

Milled light peat	35 %
Dark peat	57 %
Silica sand	8 %
Fertiliser	PG-mix, Radigen
Ekobent	
Wetting agent	Fiba – Zorb
Dolomitic limestone	

Milled light peat **35 %**

Dark peat **57 %**

Silica sand **8 %**

## Characteristics

This substrate is produced from a mixture of high-quality peats. Ekobent helps ensure a stable pH and prevents nutrient loss.

## Extent and method of use

This substrate is suitable for growing all perennials.

## Packaging

			
Big Bag	2 m <sup>3</sup>	1	0.8 x 1.2
Big Bag	3 m <sup>3</sup>	1	0.8 x 1.2
Big Bale	2.5 m <sup>3</sup>	1	0.8 x 1.2
loose			





# Substrates for growing vegetables

## Substrate for vegetables with vermicompost

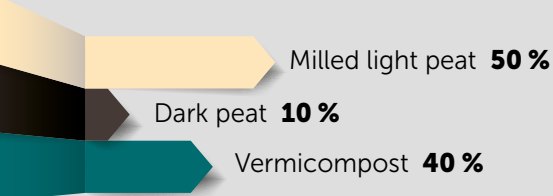
18

### Chemical and physical properties

Moisture content in % weight, max.	65
Combustible in dried specimen in % weight, min.	55
pH value (aqueous extract)	5.5-7.0
Electrical conductivity in mS.cm-1 *) max. *) in aqueous extract 1w:25v	1.2

### Composition

Milled light peat	50 %
Dark peat	10 %
Vermicompost	40 %
Fertiliser	PG-mix
Wetting agent	Fiba - Zorb
Dolomitic limestone	



### Characteristics

This substrate is produced from a mixture of high-quality white peats and vermicompost.

### Extent and method of use

This substrate is suitable for growing vegetables.

### Packaging

			
Big Bag	2 m <sup>3</sup>	1	0.8 x 1.2
Big Bag	3 m <sup>3</sup>	1	0.8 x 1.2
Big Bale	2.5 m <sup>3</sup>	1	0.8 x 1.2
loose			








# Substrates **tailored** to the customer

The wide range of peats and components offered by Rašelina a.s., along with our team's many years' experience, means we can prepare essentially any substrate. We are ready to advise you and provide consultation on all your requirements.

The prices of tailored substrates are specified in our specific price quotation, and these prices are calculated on the basis of the particular recipe and proportion of individual components.

Substrates can be supplied loose, in Big Bags, Big Bale or 70-litre packs.

## Packaging

			
film	70 l		1 x 1.2
Big Bag	2 m <sup>3</sup>	1	0.8 x 1.2
Big Bag	3 m <sup>3</sup>	1	0.8 x 1.2
Big Bale	2.5 m <sup>3</sup>	1	0.8 x 1.2
Big Bale	5 m <sup>3</sup>	1	1 x 1.2
loose			



## Components used and their advantages

-  **High-moor peat 'white' milled**  
raw material
-  **High-moor peat 'white' cut**  
aerates the substrate
-  **Transition peat 'black'** (peat substrate harvested in the CR)  
holds water in the substrate, stabilises the substrate against nutritional fluctuations
-  **Peat fibre**  
to support substrate stability, prevent material sinking
-  **Coconut fibre**  
removes excess water, adjusts structure, increases substrate stability
-  **Coconut chips**  
increases air content, removes excess water, increases substrate stability
-  **Coconut litter**  
helps remove water, increases substrate permeability
-  **Silica sand**  
helps remove water, increases substrate permeability
-  **Clay**  
binds to water, holds in nutrients, increases pH stability in substrate
-  **Perlite**  
permanent porous structure aerates the substrate
-  **Basic NPK fertiliser with microelements**  
gives the substrate key and trace nutrients for a period of max. 6 weeks
-  **Long-acting fertiliser**  
gives the substrate nutrients for up to 3 months
-  **Fertiliser with controlled nutrient release (Osmocote, Basacote)**  
releases nutrients at a particular temperature for up to 12 months
-  **Liadrain**  
loosens the substrate, secures structure stability, accumulates water
-  **Pumice**  
a light volcanic rock; its ability to soak up water maintains optimal moisture content in the substrate
-  **Growth stimulators**  
support fast rooting and correct plant growth
-  **Wetting agent**  
reduces substrate surface tension, promotes even water distribution
-  **Water-holding substances**  
accumulate water in the substrate due to their structure, which binds to a large volume of water

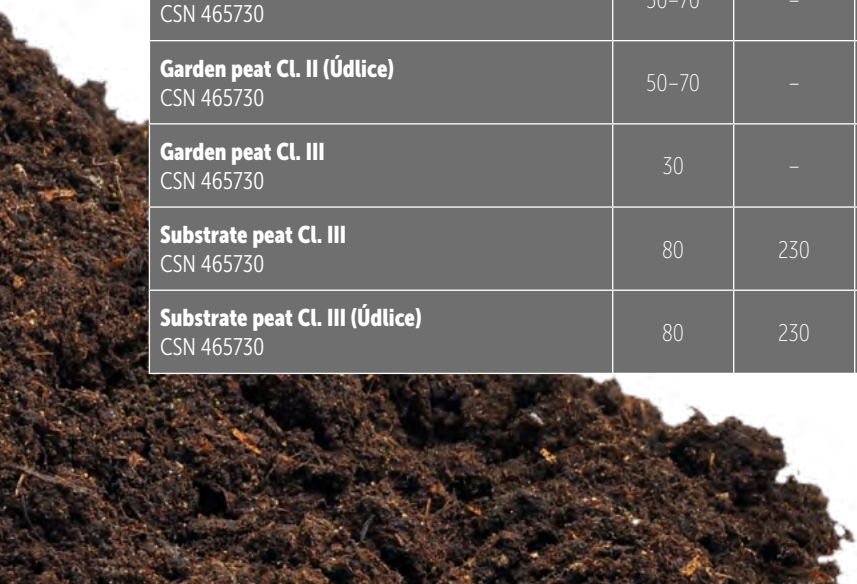


# Peats

Light peat	decomposition level	fraction	packaging		units per pal.	pallet size in m	EAN
			BAG	Big BALE			
'White' high-moor peat	H2-H4	0-5	-	5 m <sup>3</sup>	1	1 x 1.2	8 594019 509057
'White' high-moor peat	H2-H4	0-20	-	5 m <sup>3</sup>	1	1 x 1.2	8 594019 509019
'White' high-moor peat	H2-H3	0-20	250 l	-	18	1 x 1.2	8 594019 500856
'White' high-moor peat	H2-H4	5-10	-	5 m <sup>3</sup>	1	1 x 1.2	8 594019 509002
'White' high-moor peat	H2-H4	10-20	-	5 m <sup>3</sup>	1	1 x 1.2	8 594019 509026
'White' high-moor peat	H2-H4	20-40	-	5 m <sup>3</sup>	1	1 x 1.2	8 594019 509040

Mix of dark and light peats	decomposition level	fraction	Big BALE	units per pal.	pallet size in m	EAN
Light/dark peat 70/30	H3-H5	0-20	5 m <sup>3</sup>	1	1 x 1.2	8 594019 509064
Light/dark peat 70/30	H3-H5	0-20	5 m <sup>3</sup>	1	1 x 1.2	8 594019 509057

Dark peat	combustible material in dry matter in %	Density reduced to g.l-1 max	pH value	packaging			pallet size in m
				Big BALE	Big BAG	loose	
Garden peat Cl. I CSN 465730	70	-	3.0-5.0	2.5 m <sup>3</sup>	3 m <sup>3</sup>	yes	0.8 x 1.2
Garden peat Cl. I (graded) CSN 465730	70	-	3.0-5.0	2.5 m <sup>3</sup>	3 m <sup>3</sup>	yes	0.8 x 1.2
Garden peat Cl. II CSN 465730	50-70	-	3.0-5.0	2.5 m <sup>3</sup>	3 m <sup>3</sup>	yes	0.8 x 1.2
Garden peat Cl. II (Údlice) CSN 465730	50-70	-	3.0-5.0	2.5 m <sup>3</sup>	3 m <sup>3</sup>	yes	0.8 x 1.2
Garden peat Cl. III CSN 465730	30	-	3.0-5.0	-	-	yes	-
Substrate peat Cl. III CSN 465730	80	230	3.0-5.0	2.5 m <sup>3</sup>	3 m <sup>3</sup>	yes	0.8 x 1.2
Substrate peat Cl. III (Údlice) CSN 465730	80	230	3.0-5.0	2.5 m <sup>3</sup>	3 m <sup>3</sup>	yes	0.8 x 1.2







# Soils

## Garden substrate B

Garden substrate B is a basic universal substrate produced from a mixture of high-quality peats, NPK fertiliser with trace elements and finely ground dolomitic limestone. It is used for planting trees and bushes in gardens. Vegetables can also be successfully grown in the substrate in greenhouses or plastic tunnels.

### Packaging

			
Big Bale	2.5 m <sup>3</sup>	1	0.8 x 1.2
Big Bag	2 m <sup>3</sup> / 3 m <sup>3</sup>	1	0.8 x 1.2
loose			

### Chemical and physical properties

Moisture content in % weight, max.	65.0
Combustible material in dried specimen in % weight, min.	55.0
pH value (aqueous extract)	5.0–6.5
Content of particles over 20 mm in % weight, max.	5.0
Electrical conductivity in mS/cm (aqueous extract 1:25), max.	1.2

## Údlice garden soil

Garden soil is produced by composting organic material. It is used as a basic soil for establishing areas of greenery and in planting trees and bushes. The soil is deposited in Údlice u Chomutova.

### Packaging

			
loose			




### Chemical and physical properties

Moisture content in % weight, max.	60.0
Combustible material in dried specimen in % weight, min.	20.0
pH value (aqueous extract)	6.0–8.5
Particles over 31.5 mm in % weight, max.	5.0
Electrical conductivity in mS/cm (aqueous extract 1:25), max.	1.2

## Soil for lawns

Soil for lawns is produced from a mixture of high-quality sorted transition and low-moor peats, compost produced from shredded fine-graded pine and spruce bark, and sifted fine-graded silica sand with added combined mineral fertiliser. The soil is used as a top layer for establishing and sowing lawns. The soil allows fast and even seed germination.

### Packaging

			
Big Bale	2.5 m <sup>3</sup>	1	0.8 x 1.2
Big Bag	2 m <sup>3</sup> / 3 m <sup>3</sup>	1	0.8 x 1.2
loose			




### Chemical and physical properties

Moisture content in % weight, max.	65.0
Combustible material in dried specimen in % weight, min.	40.0
pH value (aqueous extract)	5.5–7.0
Content of particles over 20 mm in % weight, max.	5.0
Electrical conductivity in mS/cm (aqueous extract 1:25), max.	1.0

## Soils for green roofs (intensive, extensive)

These soils are produced from graded transition peat, graded high-quality bark compost and Liadrain. Bentonite is added to the soil prepared for growing to hold in nutrients and moisture. The soil is fertilised with a combined mineral fertiliser containing microelements for 3-4 weeks of plant growth.

### Packaging

			
Big Bale	2.5 m <sup>3</sup>	1	0.8 x 1.2
Big Bag	2 m <sup>3</sup> / 3 m <sup>3</sup>	1	0.8 x 1.2
loose			

### Chemical and physical properties

Combustible material in dried specimen in % weight, min.	25.0
pH value (aqueous extract)	5.5–7.5
Content of particles over 20 mm in % weight, max.	5.0





## Industrial compost

Industrial compost is produced by composting organic material. It is used as a basic soil for establishing areas of greenery and in planting trees and bushes. Industrial compost is not graded as standard. The compost is deposited in Údlice u Chomutova.

### Packaging

			
loose			

### Chemical and physical properties

Moisture content in % weight, max.	40.0–65.0
Combustible material in dried specimen in % weight, min.	25.0
Total nitrogen as N calculated for dried specimen in % weight, min.	0.6
pH value (aqueous extract)	6.0–8.5
C : N ratio max.	30
Non-biodegradable material in % weight, max.	5.0

## Soil for conifers

Soil for conifers is produced from a mixture of high-quality transition high-moor and 'white' peats, and also contains clay, Cererit mineral fertiliser and finely ground dolomitic limestone. It is used for planting conifers.

### Packaging

			
Big Bale	2,5 m <sup>3</sup>	1	0,8 x 1,2
loose			

### Chemical and physical properties

Moisture content in % weight, max.	65.0
Combustible material in dried specimen in % weight, min.	55.0
pH value (aqueous extract)	4.3–5.5
Content of particles over 20 mm in % weight, max.	5.0
Electrical conductivity in mS/cm (aqueous extract 1:25), max.	1.0

## Soil for azaleas

Soil for azaleas and rhododendrons is produced from a mixture of high-quality transition and low-moor peats of suitable acidity, 'white' peat, graded silica sand and multi-component mineral fertiliser with trace elements. The soil has a lower pH. It is used for planting azaleas, rhododendrons and Canadian blueberries.

### Packaging

			
Big Bale	2,5 m <sup>3</sup>	1	0,8 x 1,2
loose			




### Chemical and physical properties

Moisture content in % weight, max.	65.0
Combustible material in dried specimen in % weight, min.	60.0
pH value (aqueous extract)	3.5–5.5
Content of particles over 20 mm in % weight, max.	5.0
Electrical conductivity in mS/cm (aqueous extract 1:25), max.	1.0

## Soil for strawberries

Soil for strawberries is produced from a mixture of high-quality peats and mature, fine-graded bark compost with added mineral fertilisers. It contains a chloride-free NPK fertiliser with microelements – providing fertilisation for a number of weeks. Used for planting strawberries.

### Packaging

			
Big Bale	2.5 m <sup>3</sup>	1	0.8 x 1.2
Big Bag	2 m <sup>3</sup> / 3 m <sup>3</sup>	1	0.8 x 1.2
loose			

### Chemical and physical properties

Moisture content in % weight, max.	65.0
Combustible material in dried specimen in % weight, min.	60.0
pH value (aqueous extract)	5.0–6.5
Content of particles over 20 mm in % weight, max.	5.0
Electrical conductivity in mS/cm (aqueous extract 1:25), max.	1.2





# Non-woven fabric

Non-woven fabric	size	pcs in pack	unit of measurement	pcs/pal.	EAN
Non-woven fabric, white	1.6 x 5	50	pcs	400	8 594019 501181
Non-woven fabric, white	1.6 x 10	20	pcs	200	8 594019 501198
Non-woven fabric, white	1.6 x 100	1 roll	pcs		8 594019 501211
Non-woven fabric, white	1.6 x 250	1 roll	pcs		8 594019 501235
Non-woven fabric, white	3.2 x 5	20	pcs	200	8 594019 501242
Non-woven fabric, white	3.2 x 10	10	pcs	100	8 594019 501266
Non-woven fabric white	3.2 x 100	1 roll	pcs		8 594019 501297
Non-woven fabric, white	1.6 x 250	1 roll	pcs		8 594019 501303
Non-woven fabric, black	1.6 x 5	20	pcs	200	8 594019 501310
Non-woven fabric, black	1.6 x 10	10	pcs	100	8 594019 501327
Non-woven fabric, black	1.6 x 100	1 roll	pcs		8 594019 501341
Non-woven fabric, black	1.6 x 50	1 roll	pcs		8 594019 501365
Non-woven fabric, black	3.2 x 5	10	pcs	100	8 594019 501372
Non-woven fabric, black	3.2 x 10	5	pcs	50	8 594019 501389
Non-woven fabric, black	3.2 x 100	1 roll	pcs		8 594019 501396
Non-woven fabric, black	3.2 x 250	1 roll	pcs		8 594019 501426





2)

Professional fertilisers



**Introducing Ferty® and Agriplant branded products. We would like to give you some useful advice and tried-and-tested tips for successful fertiliser use and for achieving the best possible growth results.**

**Planta is a successful partner to growers the world over. Since its founding in 1976, the company's principal objective has always been maximum customer satisfaction.**

Due to its sole specialisation in producing fully water-soluble mineral fertilisers for gardening professionals, Planta can focus completely on the quality of the products it produces and supplies.

This high quality includes excellent services: its own laboratory and co-operation with research institutes and technical universities, allowing it to offer you the best consultancy services and assistance in plant nutrition.

In 2005, Planta completed modernisation of its factory which produces mineral fertilisers for professional gardeners. Its technical innovations, which had not previously been implemented, provide the basis for the success of your crops.

See for yourself the high quality of products we offer. Together, Rašelina a.s. and Planta fertiliser producers will always stand by you – as a reliable and expert partner.

## Why choose Planta fertilisers?

### Experience

Planta has been developing and producing water-soluble fertilisers for professional gardeners for more than 30 years.

### Consultancy services for customers

Experience, specialisation, contact with experts and our own laboratory – all this means expert help in issues of plant nutrition.

### Tailored fertiliser

Do your plants need 0.3 % more MgO? No problem. Planta can produce a fertiliser in accordance with the customer's requirements.

### Awards

Planta – winner of the TASPO 2006 award!  
Planta partner to growers underscores significant efforts to ensure high-quality products and services.

### Services

Advice for customers in choosing and using water-soluble fertilisers. A spectrum of services is complemented by water and substrate analysis.

### High-quality raw materials

Planta uses only the highest quality raw materials, which are inspected in company laboratories. They use the highest quality raw materials on the world market, and because they are independent, they are not forced to buy materials from large concerns which may sell products of lower quality.

### High-quality products

A new production plant reflects many years' experience in production and growers' requirements for water-soluble fertilisers.

## Principal benefits of Planta fertilisers

- High nutrient availability
- Fine structure and high homogeneity
- Excellent solubility
- Fast dissolution rate
- Zero dust

## Additives

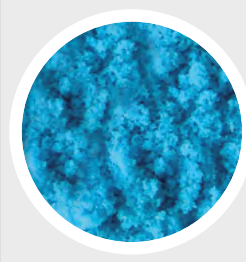
More than twenty years' experience in climatically extreme areas (e.g. Asia and a number of Arab countries) has resulted in products which can be used optimally throughout the world without any qualitative changes occurring (e.g. hardening).

Because our products demonstrate a high quality and excellent solubility, they can easily be used without additives promoting solubility, such as citric acid or other organic substances. The presence of additives

of organic origin often results in mould forming in tanks containing the stock solution.

Our coloured products use fully water-soluble colourings made solely for the food industry. As such, you can safely use our fertilisers to grow fruits and vegetables. Because of their fine structure, Planta products have a larger particle surface area, which means the fertiliser dissolves faster when making stock solutions, even in less favourable conditions (e.g. in cold water, without using mixing equipment).

A competitor's comparable product with too coarse a structure and unsuitable homogeneity.



A competitor's product which used raw materials with a high moisture content which were not dried.



Ferty fertiliser – fine structure, high homogeneity and almost zero moisture content in the final product due to a special production process.



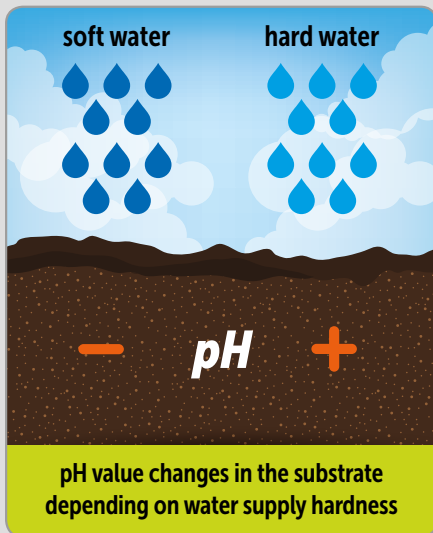
# Two important parameters

when choosing an appropriate fertiliser:

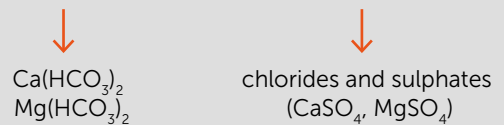
**1** stated and required pH value in the substrate

**2** hardness of water supply

A soft water supply, e.g. rainwater, has an acidic effect, causing a gradual fall in the pH of the growing substrate. In contrast, a hard water supply has an alkaline effect, causing a gradual rise in the pH of the growing substrate (see subsequent diagram). The ideal water hardness is between 2.8 and 3.6 AC.



Total water hardness = transitional (carbonate) water hardness + permanent water hardness



## Important

The pH value of water says very little of its properties. It is the water hardness which is key. The higher the water consumption, and the smaller the substrate volume in the container, the faster the pH changes.

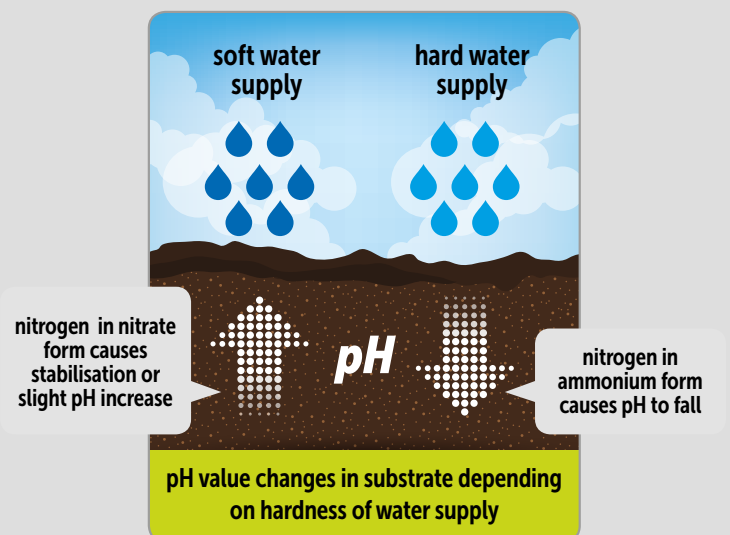
# Fertilisation and its effect on pH value

The adverse effects caused by too low or high a carbonate hardness can easily be avoided by using the right nitrogen fertiliser. The form of nitrogen is key:

When plants receive nitrogen in nitrate form, bicarbonate ( $\text{HCO}_3$ ) is produced, which is alkaline after absorption, whereas transformation of nitrogen in ammonium form releases protons ( $\text{H}^+$  ions), which are acidic. Changes in pH values in the substrate correspond above all to the hardness of the water supply and the form of nitrogen in the fertiliser (see subsequent diagram).

## Choose

the right Hortilon Professional brand product for every method of use. Our range comprises the whole spectrum of fertilisers, ranging from a very soft to very hard water supply:



Very soft water	Soft water	Hard water	Very hard water
< 2.14 mmol/l	2.14–4.3 mmol/l	4.3 – 5.7 mmol/l	> 5.7 mmol/l
Fertiliser with N content in nitrate form predominant in combination with calcium nitrate	Fertiliser with N content in nitrate form predominant	Fertiliser with N content in ammonium form predominant	Fertiliser with N content in ammonium form predominant in combination with ammonium sulphate



**NPK** **20** **7** **10** **+2 MgO**

# Ferty 1

Water-soluble, chloride-free NPK fertiliser with microelements with extra N content.

## Use for:

This fertiliser is suitable to support the growth phase of all seedlings and ornamental foliage plants. It is used, e.g., in growing seedlings in containers during their growth phase, and also in market gardening for small plants in their growth phase or when transplanting. The fertiliser is also suitable for all acidophilous plants, such as heather, azaleas and rhododendrons.

## Recommended dosage:

acidophilous plants, palms and green plants – 0.05-0.2% solution (50-200 g fertiliser / 100 l water)

potted plants and transplanted plants for cutting – 0.1-0.2% solution; vegetables – 0.03-0.08% solution depending on culture and growth phase

growing seedlings – 0.05-0.2%

foliar feeding (application on leaves) – max. 0.05% solution

Weight: 25 kg net

## Declared nutrient content

N	total nitrogen	20 %
N	nitrate nitrogen	8.5 %
N	ammoniacal nitrogen	11.5 %
P <sub>2</sub> O <sub>5</sub>	phosphorus pentoxide soluble in neutral ammonium citrate and water	7 %
P <sub>2</sub> O <sub>5</sub>	phosphorus pentoxide soluble in water	7 %
K <sub>2</sub> O	water-soluble potassium oxide	10 %
MgO	water-soluble magnesium oxide	2 %
B	water-soluble boron	0.020 %
Cu	chelated copper with EDTA	0.030 %
Fe	chelated iron with EDTA	0.075 %
Mn	chelated manganese with EDTA	0.050 %
Mo	Molybdenum soluble in water	0.001 %
Zn	chelated zinc with EDTA	0.010 %

	Concentration in %	Electrical conductivity (mS/cm) at 25 °C
<b>application solution</b>	0.05	0.8
	0.10	1.5
	0.15	2.3
	0.20	3.0
<b>stock solution</b>	1	11
	5	45
	10	73
	20	140



**NPK** **15** **10** **15** **+2 MgO**

# Ferty 3

Water-soluble, chloride-free NPK fertiliser with microelements, with a balanced NPK ratio for universal use over the season.

### Use for:

This fertiliser is suitable for ornamental gardening – a universal fertiliser for all cultures in their growth phase (bedding, balcony and potted plants) and for nurseries. Ferty 3 fertiliser can be mixed with Ferty 1 fertiliser in a 1 : 1 ratio, with the resultant nutrient ratio being 1 : 0.4 : 0.7 : 0.1.

### Recommended dosage:

0.05-0.2% solution (50-200 g fertiliser / 100 l water) depending on specific crop, growth phase and soil analysis results  
 fertigation (applying fertiliser each time you water) – 0.06-0.08% solution; foliar feeding (application on leaves) – max. 0.05% solution  
 Weight: 25 kg net

### Declared nutrient content

N	total nitrogen	15 %
N	nitrate nitrogen	4.5 %
N	ammoniacal nitrogen	10.5 %
P <sub>2</sub> O <sub>5</sub>	phosphorus pentoxide soluble in neutral ammonium citrate and water	10 %
K <sub>2</sub> O	water-soluble potassium oxide	15 %
MgO	water-soluble magnesium oxide	2 %
B	water-soluble boron	0.020 %
Cu	chelated copper with EDTA	0.030 %
Fe	chelated iron with EDTA	0.075 %
Mn	chelated manganese with EDTA	0.050 %
Mo	molybdenum soluble in water	0.001 %
Zn	chelated zinc with EDTA	0.010 %

	Concentration in %	Electrical conductivity (mS/cm) at 25 °C
<b>application solution</b>	0.05	0.6
	0.10	1.1
	0.15	1.6
	0.20	2.1
	0.30	2.9
<b>stock solution</b>	10	61
	20	100





**NPK** **15** **5** **30** **+2 MgO**

# Agriplant 6

Water-soluble, chloride-free NPK fertiliser with microelements with extra K content. A high potassium content promotes early compact growth, well-coloured leaves and petals, plant maturation and completion of growth phase.

## Use for:

This fertiliser is suitable for fruiting vegetables, fruit, potted plants, cut flowers, nurseries and vegetables with high demands for K content.

## Recommended dosage:

0.05-0.3% solution (50-300 g fertiliser / 100 l water) depending on specific crop, growth phase and soil analysis results; foliar feeding (application on leaves) – max. 0.05% solution

Weight: 25 kg net

	Concentration in %	Electrical conductivity (mS/cm) at 25 °C
<b>application solution</b>	0.05	0.7
	0.10	1.4
	0.15	2.0
	0.20	2.6
	0.30	4.0
<b>stock solution</b>	10	81
	20	136

## Declared nutrient content

N	total nitrogen	15 %
N	nitrate nitrogen	10.5 %
N	ammoniacal nitrogen	4.5 %
P <sub>2</sub> O <sub>5</sub>	phosphorus pentoxide soluble in neutral ammonium citrate and water	5 %
P <sub>2</sub> O <sub>5</sub>	phosphorus pentoxide soluble in water	5 %
K <sub>2</sub> O	water-soluble potassium oxide	30 %
MgO	water-soluble magnesium oxide	2 %
B	water-soluble boron	0.010 %
Cu	chelated copper with EDTA	0.010 %
Fe	chelated iron with EDTA	0.050 %
Mn	chelated manganese with EDTA	0.050 %
Mo	molybdenum soluble in water	0.001 %
Zn	chelated zinc with EDTA	0.010 %



**NPK** **6** **12** **36** **+2 MgO**

# Agriplant 7

Water-soluble, chloride-free NPK fertiliser with microelements with low N content.

**Use for:**

This fertiliser is suitable for fruiting vegetables, small fruit and fruit trees when transitioning from the vegetative to generative phase. Used to promote blossom and fruit formation. The fertiliser is also ideal for final plant fertilisation in nurseries, especially for plants grown in containers with good nitrogen supply.

**Recommended dosage:**

0.05-0.3% solution (50-300 g fertiliser / 100 l water) depending on growth phase fertigation (applying fertiliser each time you water) – 0.03-0.08% solution; foliar feeding (application on leaves) – max. 0.05% solution

Weight: 25 kg net

**Declared nutrient content**

N	total nitrogen	6 %
N	nitrate nitrogen	3.8 %
N	ammoniacal nitrogen	2.2 %
P <sub>2</sub> O <sub>5</sub>	phosphorus pentoxide soluble in neutral ammonium citrate and water	12 %
P <sub>2</sub> O <sub>5</sub>	phosphorus pentoxide soluble in water	12 %
K <sub>2</sub> O	water-soluble potassium oxide	36 %
MgO	water-soluble magnesium oxide	2 %
B	water-soluble boron	0.010 %
Cu	chelated copper with EDTA	0.010 %
Fe	chelated iron with EDTA	0.050 %
Mn	chelated manganese with EDTA	0.050 %
Mo	molybdenum soluble in water	0.001 %
Zn	chelated zinc with EDTA	0.010 %

	Concentration in %	Electrical conductivity (mS/cm) at 25 °C
<b>application solution</b>	0.05	0.7
	0.10	1.4
	0.15	2.0
	0.20	2.6
	0.30	4.0
<b>stock solution</b>	10	80
	20	135





**NPK** **12** **10** **36** **+2 MgO**

# Agriplant 7S

Water-soluble, chloride-free NPK fertiliser with microelements with balanced N:K ratio.

**Use for:**

This fertiliser is particularly suitable for feeding all strawberry species.

**Recommended dosage:**

0.05-0.3% solution (50-300 g fertiliser / 100 l water) – depending on specific crop, growth phase and soil analysis results

Weight: 25 kg net

**Declared nutrient content**

N	total nitrogen	12 %
N	nitrate nitrogen	10.1 %
N	ammoniacal nitrogen	1.9 %
P <sub>2</sub> O <sub>5</sub>	phosphorus pentoxide soluble in neutral ammonium citrate and water	10 %
P <sub>2</sub> O <sub>5</sub>	phosphorus pentoxide soluble in water	10 %
K <sub>2</sub> O	water-soluble potassium oxide	36 %
MgO	water-soluble magnesium oxide	2 %
B	water-soluble boron	0.010 %
Cu	chelated copper with EDTA	0.010 %
Fe	chelated iron with EDTA	0.050 %
Mn	chelated manganese with EDTA	0.050 %
Mo	molybdenum soluble in water	0.001 %
Zn	chelated zinc with EDTA	0.010 %

	Concentration in %	Electrical conductivity (mS/cm) at 25 °C
<b>application solution</b>	0.05	0.6
	0.10	1.3
	0.15	1.9
	0.20	2.5
	0.30	3.8
<b>stock solution</b>	10	87
	20	145



**NPK** **10** **40** **10** **+2 MgO**

# Agriplant 8

Water-soluble, chloride-free NPK fertiliser with microelements with extra P content. Extra phosphorus stimulates root growth and promotes blossom production.

### Use for:

This fertiliser is suitable for the beginning of vegetation to stimulate root growth (young plants, plants following potting) and to promote blossoming.

### Recommended dosage:

0.05-0.3% solution (50-300 g fertiliser / 100 l water) depending on specific crop, growth phase and soil analysis results; fertigation (applying fertiliser each time you water) – 0.03-0.08% solution; foliar feeding (application on leaves) – max. 0.05% solution

	Concentration in %	Electrical conductivity (mS/cm) at 25 °C
<b>application solution</b>	0.05	0.6
	0.10	1.1
	0.15	1.6
	0.20	2.1
	0.30	2.9
<b>stock solution</b>	10	61
	20	100

### Declared nutrient content

N	total nitrogen	6 %
N	nitrate nitrogen	3.8 %
N	ammoniacal nitrogen	2.2 %
P <sub>2</sub> O <sub>5</sub>	phosphorus pentoxide soluble in neutral ammonium citrate and water	12 %
P <sub>2</sub> O <sub>5</sub>	phosphorus pentoxide soluble in water	12 %
K <sub>2</sub> O	water-soluble potassium oxide	36 %
MgO	water-soluble magnesium oxide	2 %
B	water-soluble boron	0.010 %
Cu	chelated copper with EDTA	0.010 %
Fe	chelated iron with EDTA	0.050 %
Mn	chelated manganese with EDTA	0.050 %
Mo	molybdenum soluble in water	0.001 %
Zn	chelated zinc with EDTA	0.010 %





# Hortilon pro water-soluble fertilisers

Hortilon pro water-soluble fertilisers	Nutrient content (NPK)***	Packaging	UM	pcs/pal.	pallet size	EAN
<b>Ferty 1</b>	20-7-10(+2)+ME	25	pcs	40	0.8 x 1.2m	8 594019 501143
<b>Ferty 3</b>	15-10-15(+2)	25	pcs	40	0.8 x 1.2m	8 594019 501082
<b>Agriplant 6</b>	15-5-30(+2)	25	pcs	40	0.8 x 1.2m	8 594019 501020
<b>Agriplant 7</b>	6-12-36(+2)	25	pcs	40	0.8 x 1.2m	8 594019 501099
<b>Agriplant 7S</b>	12-10-36(+2)	25	pcs	40	0.8 x 1.2m	8 594019 500047
<b>Agriplant 8</b>	10-40-10(+2)	25	pcs	40	0.8 x 1.2m	8 594019 500054

# Long-acting fertilisers

Long-acting fertilisers	Nutrient content (NPK)***	Packaging	UM	pcs/pal.	pallet size	EAN
<b>Lovogreen spring</b>	20-5-8+2MgO	20	pcs	50	0.8 x 1.2m	8 594019 505509
<b>Lovogreen autumn</b>	10-5-20+4MgO	25	pcs	40	0.8 x 1.2m	
<b>Entec 26</b>	26N 13S	50	pcs	20		
<b>Entec Perfekt</b>	14-7-17+2Mg+9S+ME	25	pcs	40		

# Fertilisers with controlled release of nutrients

Controlled-release fertilisers	Nutrient content (NPK)***	Packaging	UM	pcs/pal.	pallet size
<b>Osmocote Exact 3-4 M</b>	16-9-12+2MgO	25	pcs	40	0.8 x 1.2m
<b>Osmocote Exact 5-6 M</b>	15-9-12+2MgO	25	pcs	40	0.8 x 1.2m
<b>Osmocote Exact 8-9 M</b>	15-9-11+2MgO	25	pcs	40	0.8 x 1.2m
<b>Osmocote Exact 12-14 M</b>	15-9-11+2MgO	25	pcs	40	0.8 x 1.2m
<b>Basacoce 6 M</b>	16-8-12+2+5S+ME	25	pcs	40	0.8 x 1.2m
<b>Basacoce 9 M</b>	16-8-12+2+5S+ME	25	pcs	40	0.8 x 1.2m
<b>Plantacote</b>	14-9-15(+2)+6M	25	pcs	40	0.8 x 1.2m



# Hortus pro mineral fertilisers

Hortus pro mineral fertilisers	Nutrient content (NPK)***	Packaging	UM	pcs/pal.	pallet size	EAN
<b>Ceririt</b>	8-13-11+2MgO+15S	25	pcs	40	0.8 x 1.2m	8 594019 501945
<b>NPK</b>	10-10-10+13S	25	pcs	40	0.8 x 1.2m	8 594019 502027
<b>NPK</b>	20-8-8+2MgO+5S	25	pcs	40	0.8 x 1.2m	8 594019 501990
<b>NPK</b>	9-14-14+10S	25	pcs	40	0.8 x 1.2m	8 594019 503253
<b>Ammonium nitrate with dolomite (LAD)</b>	27N+4MgO	25	pcs	40	0.8 x 1.2m	8 594019 502010
<b>Calcium nitrate</b>	15N+26CaO	25	pcs	40	0.8 x 1.2m	8 594019 501969
<b>Granulated superphosphate 19%</b>	19P <sub>2</sub> O <sub>5</sub>	25	pcs	40	0.8 x 1.2m	8 594019 501976
<b>Potassium sulphate 50%</b>	50K <sub>2</sub> O	25	pcs	40	0.8 x 1.2m	8 594019 502041
<b>Granulated ammonium sulphate</b>	21N+23S	25	pcs	40	0.8 x 1.2m	8 594019 501334
<b>Potassium chloride 60% (salt of potassium)</b>	60K <sub>2</sub> O	25	pcs	40	0.8 x 1.2m	8 594019 502003
<b>Ground dolomitic limestone</b>	94CaCO <sub>3</sub> MgCO <sub>3</sub>	25	pcs	40	0.8 x 1.2m	8 594019 501983
<b>Synthetic urea</b>	46N	25	kg	40	0.8 x 1.2m	8 594019 503338
<b>Plantamix</b>	14-16-18+1MgO+ME	25	kg	40	0.8 x 1.2m	8 594019 503260
<b>Pg Mix</b>	14-16-18+1MgO+ME	25	kg	40	0.8 x 1.2m	8 594019 503277

# Liquid fertilisers

Liquid fertilisers	Nutrient content (NPK)***	Packaging	UM	pcs/pal.	pallet size	EAN
<b>Hortus Fertiliser univerzal</b>	7-4.5-5.5	1	l	x	0.8 x 1.2m	8 594019 507817
<b>Basfoliar 36 Extra</b>	27N <sub>3</sub> Mg+ME	20	l	x	0.8 x 1.2m	
<b>Basfoliar Aktiv</b>	3-27-18+ME	10	l	x	0.8 x 1.2m	



# Organic fertilisers



Organic fertilisers	Nutrient content (NPK)***	Packaging	UM	pcs/pal.	pallet size	EAN
Chicken farmyard manure		25 kg	pcs	40	0.8 x 1.2m	8 594019 502171
Condit 2.5 fertiliser for fruiting vegetables	2.5-1-2	1 t	pcs	1	0.8 x 1.2m	
Condit 5 fertiliser for fruiting vegetables	5-1-2	1 t	pcs	1	0.8 x 1.2m	
Mineral fertiliser for fruiting vegetables	7-1-2	1 t	pcs	1	0.8 x 1.2m	
Organic Fertiliser	8-3-3	1 t	pcs	1	0.8 x 1.2m	
Horn	14-0-0	1 kg	pcs	480	0.8 x 1.2m	8 594019 500351
HORTUS horse manure		10 kg	pcs	60	0.8 x 1.2m	8 594019 502119
HORTUS cow manure		10 kg	pcs	60	0.8 x 1.2m	8 594019 501167







**3)**

Grass programme



# Peat for lawns

Peat is a particularly suitable raw material in substrates and soils used in lawns due to its high content of organic substances and its lack of weeds. Peat increases

aeration and heat in heavier substrates. It increases sorption and absorption in light substrates. It promotes root development.



Peat for lawns	pH (H <sub>2</sub> O)	combustible material in %	el. conductivity in mS/cm	dark/light peat ratio	packaging	
					BAG	Big BALE
Milled light peat	3.5–4.5	90–100	0.05	0/100	70 l / 250 l	3.5 m <sup>3</sup> / 6 m <sup>3</sup>
Garden and compost peat Cl. I	3.0–5.0	70–90	0.05	100/0	70 l	2.5 m <sup>3</sup>
Garden and compost peat Cl. I (graded)	3.0–5.0	70–90	0.05	100/0	70 l	2.5 m <sup>3</sup>
Garden and compost peat Cl. II	3.0–5.0	50–70	0.05	0/100	70 l	2.5 m <sup>3</sup>
Garden and compost peat Cl. III	3.0–5.0	30–50	0.05	0/100	70 l	2.5 m <sup>3</sup>
Substrate peat Cl. III	3.0–5.0	80–90	0.05	0/100	70 l	2.5 m <sup>3</sup>
Garden and compost peat Cl. II (VZ Údlice)	–	–	–	–	–	–
Substrate peat Cl. III (VZ Údlice)	–	–	–	–	–	–

## Substrates and soils for gardens, parks and golf- courses

These substrates are suitable for establishing areas of grass by sowing or using rolled sod. Their composition promotes quality germination and growth of grass seeds,

holds in nutrients and has good water permeability. They comprise peat, compost, sand, clay minerals, fertiliser and limestone.

Substrates for gardens and parks	pH (H <sub>2</sub> O)	combustible material in %	el. conductivity in mS/cm	dark/light peat ratio	packaging	
					BAG	Big BALE
Pro substrate for establishing lawns	5.5–7.0	20	0.5–1.0	100/0	70 l	2.5 m <sup>3</sup>
Pro substrate for maintaining lawns	5.5–7.0	20–40	0.5–1.0	100/0	70 l	2.5 m <sup>3</sup>
Soil for lawns	5.5–7.0	40–60	0.5	80/20	70 l	2.5 m <sup>3</sup>
Soil for lawns with compost	5.5–7.0	40–60	0.5–1.0	100/0	70 l	2.5 m <sup>3</sup>

Substrates for golf courses	pH (H <sub>2</sub> O)	combustible material in %	el. conductivity in mS/cm	dark/light peat ratio	packaging	
					BAG	Big BALE
Pro substrate for establishing greens	5.5–7.0	20	0.5–1.0	100/0	70 l	2.5 m <sup>3</sup>
Pro substrate for maintaining greens	5.5–7.0	20	0.5–1.0	100/0	70 l	2.5 m <sup>3</sup>

Substrates for sports fields	pH (H <sub>2</sub> O)	combustible material in %	el. conductivity in mS/cm	dark/light peat ratio	packaging	
					BAG	Big BALE
Pro substrate for football pitches	5.5–7.0	20	0.5–1.0	100/0	70 l	2.5 m <sup>3</sup>
Pro substrate for maintaining sports fields	5.5–7.0	20	0.5–1.0	100/0	70 l	2.5 m <sup>3</sup>



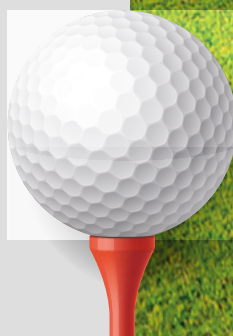


Big BAG	loose	BAG – no. pcs on pallet
–	yes	36
2 m <sup>3</sup> / 3 m <sup>3</sup>	yes	36
2 m <sup>3</sup> / 3 m <sup>3</sup>	yes	36
2 m <sup>3</sup> / 3 m <sup>3</sup>	yes	36
2 m <sup>3</sup> / 3 m <sup>3</sup>	yes	36
2 m <sup>3</sup> / 3 m <sup>3</sup>	yes	36
–	yes	–
–	yes	–

Big BAG	loose	BAG – no. pcs on pallet
2 m <sup>3</sup> / 3 m <sup>3</sup>	yes	36
2 m <sup>3</sup> / 3 m <sup>3</sup>	yes	36
2 m <sup>3</sup> / 3 m <sup>3</sup>	yes	36
2 m <sup>3</sup> / 3 m <sup>3</sup>	yes	36

Big BAG	loose	BAG – no. pcs on pallet
2 m <sup>3</sup> / 3 m <sup>3</sup>	yes	36
2 m <sup>3</sup> / 3 m <sup>3</sup>	yes	36

Big BAG	loose	BAG – no. pcs on pallet
2 m <sup>3</sup> / 3 m <sup>3</sup>	yes	36
2 m <sup>3</sup> / 3 m <sup>3</sup>	yes	36





# Fertilisers

Rašelina a.s. has been supplying basic and special fertilisers for many years, and these can be successfully used in maintaining and establishing areas of grass. In our portfolio, you can find fertilisers for spring, along with autumn

fertilisers for healthy lawn overwintering. Growth stimulators are a separate category, not directly supplying nutrients, but rather making nutrients available to plants and ensuring that they are used more efficiently.

Basic fertilisers	Nutrient content (NPK)	packaging in kg	pcs/pal.
Fertiliser for lawns	20-8-8 + 3MgO + 4S	25	40
Fertiliser for lawns	15-5-5+2 MgO+14 S+0.5 Fe	25	40
Potassium chloride	60 K <sub>2</sub> O	25	40
Ammonium nitrate with dolomite (LAD)	27N+4 MgO	25	40
Calcium nitrate	15 N	25	40
NPK	10-10-10+13 S	25	40
Organic fertiliser for lawns	5-1-5	25	40
Autumn lawn fertiliser	7-7-15+12 S+0.5 Fe	25	40
Ammonium sulphate	20 N+20 S	25	40
Potassium sulphate	50 K <sub>2</sub> O	25	40
Granulated single superphosphate	19% P <sub>2</sub> O <sub>5</sub>	25	40
Granulated triple superphosphate	45% P <sub>2</sub> O <sub>5</sub>	25	40
Ground limestone, type B	94 CaCO <sub>3</sub> + MgCO <sub>3</sub>	25	42

Special fertilisers	Nutrient content (NPK)	packaging in kg	pcs/pal.
Basatop N 44	44 N	25	40
Basatop sport	20-5-10+3 MgO	25	40
Entec 26	26 N+13 S	25	40
Floranid Master extra	19-5-10+2 MgO	25	40
Floranid Eagle	24-5-10	25	40
Floranid Eagle-NK	20-0-20+3 MgO	25	40
Floranid Permanent	15-9-15+2 MgO	25	40
Lovogreen	20-5-8+2 MgO	25	40
Lovogreen autumn	10-5-20+4 MgO	25	40
Rasen Floranid	20-5-8+2 MgO	25	40
Sportica	34-5-5	25	40

Growth stimulators	packaging
AlgaHumin	5 l
AlgaHumin	10 l



# Grass seed

Our grass seed is formed from a mixture of *Lolium perenne* (ryegrass), *Poa pratensis* (meadowgrass) and *Festuca rubra* (red fescue), which is ideally suited to the needs of sports fields, parks and gardens. It is quick to germinate after sowing and does not require excessive care.

Grass seeds	Packaging in kg	pcs/pal.	pallet size	EAN
Sports	4	80	0.8 x 1.2 m	8 594019 500535
	25	24	0.8 x 1.2 m	8 594019 500535
Park	4	80	0.8 x 1.2 m	8 594019 500535
	25	24	0.8 x 1.2 m	8 594019 500535
Garden	4	80	0.8 x 1.2 m	8 594019 500535
	25	24	0.8 x 1.2 m	8 594019 500535
Golf	2	100	0.8 x 1.2 m	8 594019 500535
Meadow	2	100	0.8 x 1.2 m	8 594019 500535
Clover	2	100	0.8 x 1.2 m	8 594019 500535

# Mulch

Bark mulch from Soběslav supplied to gardens and parks is among the best on the market thanks to our unique sorting technology, during which the bark is not only shredded, but also sieved through radial screens. This process gets rid of dust and fine particles which reduce its decorative function and allow weeds to grow. Pine bark is particularly valued for its excellent appearance and long lifetime.

Mulch	packaging			bag – no. bags per pallet	pallet size	EAN
	sack	Big BAG	loose			
Graded bark mulch	70 l	2 m <sup>3</sup> / 3 m <sup>3</sup>	yes	39	0.8 x 1.2 m	8 594019 500535
Fine bark	–	–	yes	–	0.8 x 1.2 m	8 594019 500535
Pine bark 8–15 mm	70 l	2 m <sup>3</sup>	–	–	0.8 x 1.2 m	8 594019 500535
Pine bark 15–35 mm	70 l	2 m <sup>3</sup>	–	39	0.8 x 1.2 m	8 594019 500535
Pine bark 35–55 mm	70 l	–	–	39	0.8 x 1.2 m	8 594019 500535
Pine bark 55–95 mm	70 l	–	–	39	0.8 x 1.2 m	8 594019 500535





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