Innovative substrates from Lithuania

Substrates based on moderately decomposed peat own the following advantages:

· The substrate retains water for a longer period.

· The substrate has excellent drainage properties.

· Moderately decomposed peat is rich in humic acid which stimulates root growth.

· Crop security increases due to a higher water and nutrient buffer.

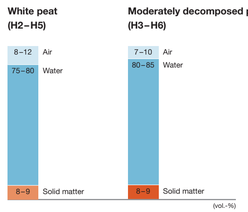
· Due to less irrigation treatments growers have lower costs leading to higher economic efficiency in production.

· Lower water consumption supports responsible consumption of natural resources.

· Plants show compact growth and better shelf life.

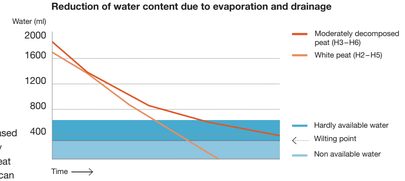
Physical properties

Moderately decomposed peat moss shows a higher water capacity compared to a low decomposed sphagnum peat moss.



Irrigation of a container with 2 l volume

In substrates based on a moderately decomposed peat moss irrigation can be reduced. This is a special advantage in summer and hot climate.



The result shows that moderately decomposed peat increases the availability of water, especially at the limit of the wilting point

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KLASMANN DEILMANN
we make it grow

New peat raw materials: Innovative substrates from Lithuania

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New peat raw materials – more decomposed

In future, Klasmann-Deilmann will use differently decomposed varieties of peat for substrate production in Lithuania. So called “moderately decomposed” or “strongly decomposed” peat will complete the range of peat raw materials and offer new opportunities for substrate production.

We will draw on our expertise in black peat extraction and leave the strongly decomposed Lithuanian peat to freeze through in winter. Peat is extracted in late autumn and left to freeze right through during winter in layers of about 25 cm. After drying during spring until June/July of the following year, a very homogeneous raw peat is obtained with both an excellent water capacity and sufficient air capacity. This frozen through and strongly decomposed Lithuanian peat will at first be used within our German and Dutch production sites to replenish frozen through German black peat.

The moderately decomposed peat is the ideal supplement to the existing white peat qualities. It provides Klasmann-Deilmann with an excellent variety of raw materials in Lithuania for the production of high quality special substrates:

· White peat (H2–H5), fine to coarse structures
· Structurally stable sod peat (H2–H5)
· Peat fibres, medium to coarse structures
· Moderately decomposed peat (H3–H6), fine to medium structures

All peat fields are certified and quality controlled by ECAS (European Certification body for the Agricultural Sector) according to the strict RHP norm.

New options for substrate production

Moderately decomposed peat has already been used for the product range TS 3 with great success for years. This group of substrates has proven itself time and again under varying conditions.

Klasmann-Deilmann is now expanding its range by the Klasmann TS 4 PLUS group as well as Klasmann Base Substrate 5 PLUS which also contain a proportion of moderately decomposed peat.

Pot plants

· Ideal for any irrigation system
· Structurally stable through the use of fractionated sod peat

Bedding and patio plants

· Successful cultivation in packs and pots
· Also with slow release fertilizers

Propagation/ Seedling

· Healthy young plants with direct sowing
· Very fine, free-flowing structure suitable for automatic filling lines

Nursery stock

· Stable drainage properties
· Suitable for any growing system

	TS 4 PLUS medium	TS 4 PLUS medium + Perlite with clay	Base Substrate 5 PLUS medium	TS 3	TS 3 with clay	TS 3 medium	TS 3 medium with clay	TS 3 fine	Plug Mix Aquasave	TS 4 PLUS coarse
Recipe-No.	608	610	600	425	404	601	607	416	470	609
Composition	White peat fibres White sod peat (10–25 mm) White peat, moderately decomposed (0–25 mm)	Perlite White peat fibres White sod peat (10–25 mm) White peat, moderately decomposed (0–25 mm)	White peat fibres White peat, moderately decomposed (0–25 mm)	White peat, moderately decomposed (0–25 mm)	White peat, moderately decomposed (0–25 mm)	White peat fibres White sod peat (10–25 mm) White peat, moderately decomposed (0–25 mm)	White peat fibres White sod peat (10–25 mm) White peat, moderately decomposed (0–25 mm)	White peat, moderately decomposed (0–5 mm)	White peat, fine White sod peat (1–7 mm) White peat, moderately decomposed (0–5 mm)	White sod peat (25–45 mm) White peat fibres White sod peat (10–25 mm) White peat, moderately decomposed (0–25 mm)
Clay		clay granules			clay granules		clay granules			
pH-value (H_2O)	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
Fertilization (g/l)	1.0	1.0	none	1.0	1.0	1.0	1.0	1.0	0.7	1.0
Extra trace elements	●	●	●	●	●	●	●	●	●	●
Wetting agent	●	●	●	●	●	●	●	●	●	●
Structure	medium	medium	medium-fibrous	medium	medium	medium	medium	extra fine	fine	coarse
Use for	Ornamental plants, foliage plants	Pot plants	Bedding and patio plants	Bedding plants	Bedding plants, primrose, viola	Bedding plants	Growing on of geranium, bedding plants	Vegetable young plants, ornamental plants	Vegetable young plants, seedlings	Shrubs and trees, foliage plants





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Efficient production in Lithuania

Klasmann-Deilmann has decades of experience in the extraction and preparation of peat raw materials. Our growing media offer a consistently high quality and are in great demand all over the world.

Klasmann-Deilmann possesses extensive resources in Germany, Ireland and Lithuania. Valuable peat materials are extracted with the greatest possible care and processed to make high quality growing media at our many production sites throughout Europe.

Klasmann-Deilmann has been operating in Lithuania since the beginning of the nineties because the country has abundant sustainable resources of the raw peat needed to produce high quality substrates. We have made huge investments and transferred our entire know-how to Lithuania in order to develop the most efficient substrate production infrastructure in the Baltic, including state-of-the-art manufacturing facilities and extraction technologies.

Raw materials are extracted carefully from all the extraction areas so as to preserve their structure using new generation vacuum harvesters. For sod peat extraction we mainly use the highly effective cutting-box technique.