

GROWTH CATALOGUE

Professional substrates & soils





TOGETHER. COMMITTED. SECURE.

As a professional gardener, you face the daily challenge of getting the best out of your crops. At GRAMOFLOR, we understand this – and support you in doing so:

Together

We work with you to develop the optimal substrate solution for your individual requirements. Our specialist consultants are available to assist you in person on site and by phone – from young plants to plants ready for sale.

We focus on long-term, cooperative partnerships at all levels, because only together we can achieve successful growth – for your plants and your business.

Committed

Our dedicated team of specialists – from production to consulting – stands for the highest quality and reliable solutions. Our commitment goes far beyond substrate production. We set standards in raised bog development and renaturation. Here, we work together with renowned NGOs on exemplary and forward-looking bog restoration projects.

Our dedicated research and development makes us experts in peat substitutes such as our quality wood fiber LIGNOFIBRE®, coconut, and substrate compost. We are also the first substrate company in the professional substrate sector to be HORTICERT-certified, proving our sustainability for your success.

Secure

With our own peat deposits in Northern Germany, two wood fiber plants, and our own coconut and substrate compost processing facilities, we guarantee you the highest level of delivery reliability. Our experts ensure yield and crop security – your most important added value!

"Quality right from the start!" has always been our credo. Our customers regularly confirm this high product quality, making us your reliable substrate supplier.

Put your trust in GRAMOFLOR: your reliable partner for professional substrates.

Gramoflor in numbers



3 production sites



> 130 employees



46 Mio. Euro/year



> 700.000 m³
substrate/year



Certified substrates
supporting sustainable
production



42% peat substitution
rate in 2025



> 300 ha renaturation area



Professional
horticulture (B2B)



> 220 ha in der
peat extraction

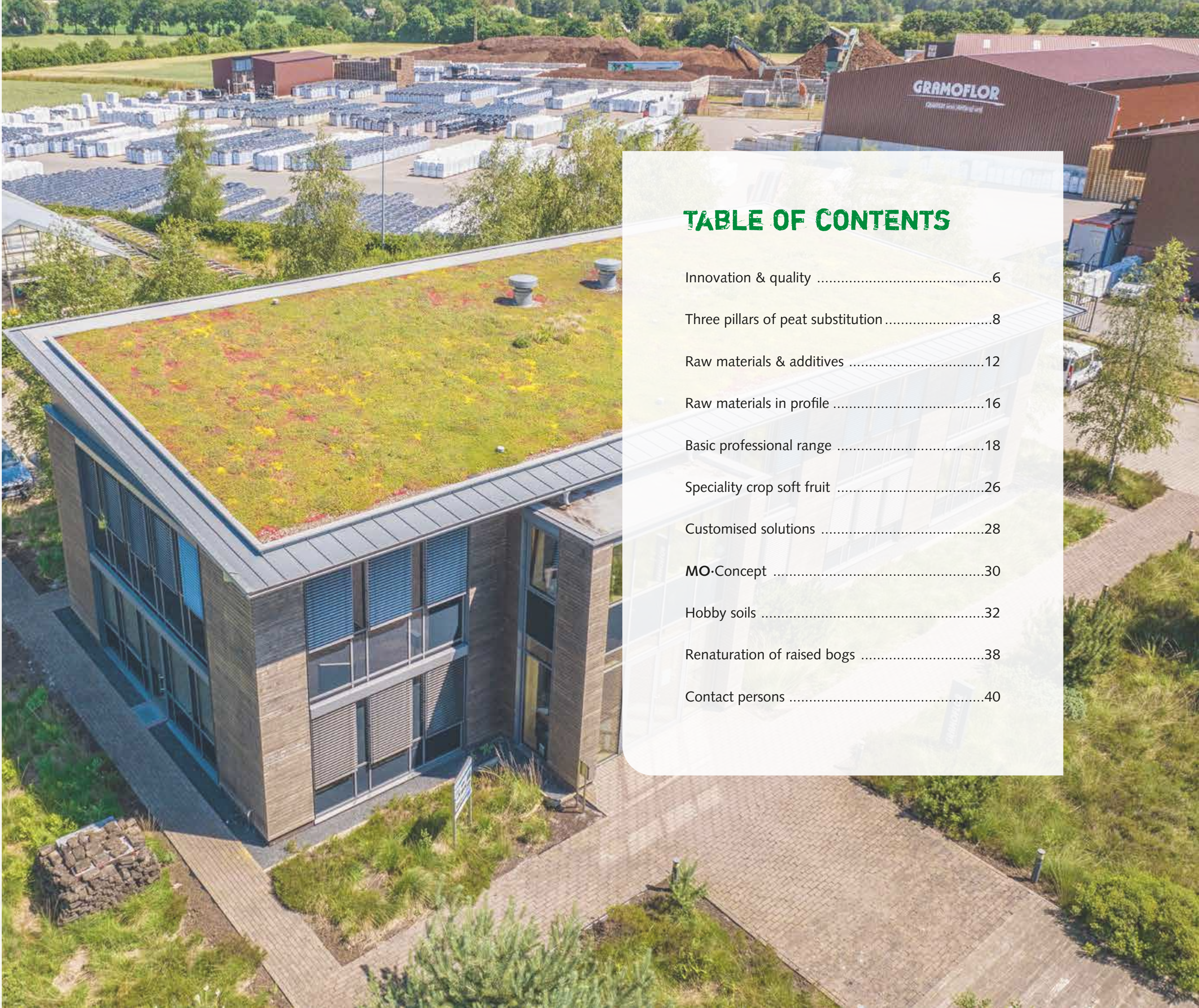


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INNOVATION & QUALITY

Sustainable and safe

Both GRAMOFLO® Research and Development (R&D) and Sustainable Product Development (SPD) have been conducting intensive research work for years. They develop innovative quality substrates for the optimal develop-



ment of a wide variety of crops and plants. Crop safety for horticulture, healthy and vital plants and climate-conscious peat reduction are the top priorities. The well-trained team also focusses on the research into alternative, preferably renewable and regional substrate raw materials and uses its own greenhouse and laboratory for this purpose.

Tested and certified

"Quality right from the start" is our guiding principle. To live this actively, we introduced a comprehensive quality management system years ago.

Our raw materials and professional substrates are certified in accordance with the RAL quality procedure.* This certifies compliance with the high quality standards of the Gütegemeinschaft Substrate für Pflanzen e.V. **The RAL quality and test specifications** are subject to regular monitoring and correspond to the current state of the art.

In addition, all **LIGNOFIBRE®** variants as well as Cocopeat types, Cocofibre and our organic substrates and organic soils are suitable for organic farming and **listed in the FiBL input list**. Our organic substrates and organic soils are also ECOCERT certified.

With the **HORTICERT certification** obtained in autumn 2024 for our two German GRAMOFLO® plants, we are underlining our credible commitment to sustainability. This independent, international certification system ensures ecological, social and economic sustainability criteria for peat substitutes, potting soils and growing media along the entire supply chain.



Our successful HORTICERT certification gives us the opportunity to calculate our carbon footprint in substrate production transparently and verifiably in comparison to a specified reference mixture made from 100% peat.



FiBL



* Coco Chips have not yet been RAL certified as of Dec. 2025

THREE PILLARS OF PEAT SUBSTITUTION

1. WOOD FIBRE Quality wood fibre LIGNOFIBRE®

When it comes to describing the ideal peat substitute for substrates and soils, our own wood fibre with the brand name **LIGNOFIBRE®** provides all the necessary properties.

Using **state-of-the-art refining technology**, we have been producing this quality wood fibre since 2018 in what are now two of our own wood fibre plants.

In this way, we obtain a particularly high-quality substrate raw material with a **good CO₂ balance** from the renewable and regional residual material wood chips through thermal-mechanical defibration.

Our four flexibly selectable **structure variants**, ranging from extra-fine to medium, are an ideal replacement for peat in substrates and soils and are also suitable for the entire range of different crops, from press pots to containers. They can be **perfectly** combined with each other, but also with other peat substitutes, thus ensuring maximum peat reduction while taking crop safety into account. All variants are RAL quality-assured and FiBL-listed for use in organic horticulture.

The advantages of **LIGNOFIBRE®** wood fibre at a glance:

- effective combinability for maximum peat reduction
- local and reliable availability
- good drainage properties of the coarser variants
- good water storage capacity of the finer variants
- balanced air balance
- quick rewettability
- structural stability, i.e. low shrinkage
- rapid drying of the substrate surface
- low n-fixation (nitrogen stabilised)



- ★ Air capacity
- ★ Water absorption

2. COCO

Diverse portfolio of coconut products

Cocopeat (coconut pulp), Cocofibre (coconut fibres) and Coco Chips are sufficiently available in the countries of origin, such as India and Sri Lanka, as **residual materials** from coconut processing and have now also proven to be excellent peat substitutes in professional horticulture.

Our new **Coco Chips** are made from shredded coconut husks and offer an excellent, coarse-grained structure for substrates. As a peat-free alternative to coarse white peat, Coco Chips are characterised by their very good structural stability, which is demonstrably even superior to that of white peat.

The natural fibre content promotes the air capacity of the substrate, which is essential for healthy root development, among other things. **LIGNOFIBRE®** is the perfect addition to Coco Chips to support a coarser, airier structure.

Thanks to the water retention in the coarse pieces, Coco Chips support sustained moisture despite their coarse structure.

We process the raw material **Cocopeat** ourselves at our production plant using a specially developed process. A large proportion of the so-called leaching of unwanted salts/nutrients takes place under controlled conditions.

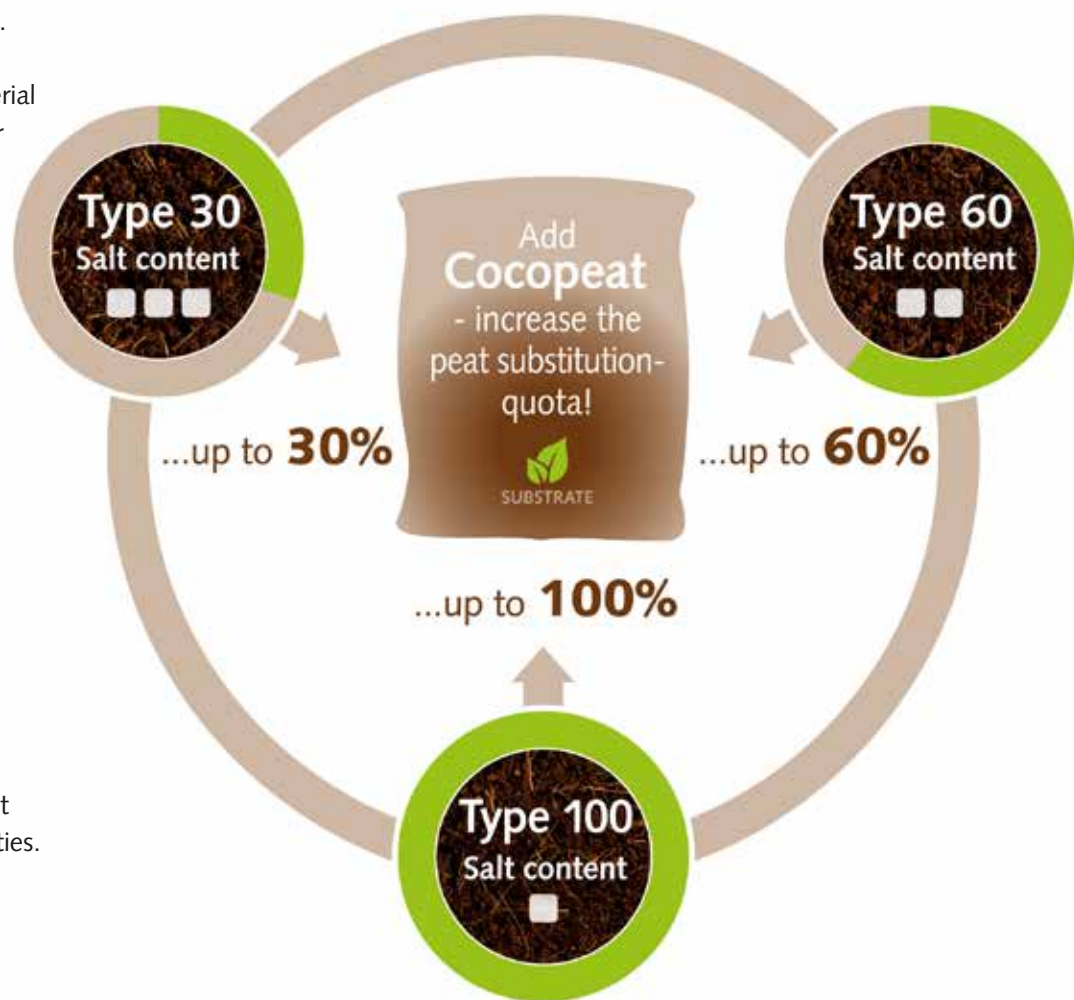
GRAMOFLOR is therefore able to process the Cocopeat and differentiate it into **three types** so that it can be tailored even more precisely to the respective cultivation requirements in terms of salt content and chemical properties.

This enables continuity in the chemical properties and thus an effective and safe use of coco products in the substrate.

Three Cocopeat qualities are therefore available:

- **Type 30** for proportions in substrates up to 30%
 - **Type 60** for proportions in substrates up to 60%
 - **Type 100** for proportions in substrates up to 100% and for particularly sensitive crops.
- Chemical buffering is no longer necessary.

All coconut products, except Coco Chips, are RAL quality-assured and FiBL-listed for use in organic horticulture.



3. SUBSTRATE COMPOST


From our own processing

Substrate compost is another renewable raw and residual material that is obtained from green waste **in the spirit of a smart circular economy**. However, it can only be used for peat reduced and peat free substrates and soils if strict quality standards are met.

The substrate compost used by GRAMOFLOR comes from long-term partnerships with regional suppliers from the waste management industry who recognise these high requirements and also achieve them with their compost. We only use high-quality green waste compost in accordance with the German Compost Quality Association (Bundesgütegemeinschaft Kompost) with rotting grade V.

And this compost material is further processed in the GRAMOFLOR production plants by pre-screening, resulting in a more homogeneous product with further application possibilities in soils and substrates.

The RAL quality assurance guarantees a continuously consistent high quality in order to fulfil the requirements of a substrate for professional horticulture and the cultivation safety necessary there.



Substrate compost
Quality requirements

A compost suitable for professional substrates has good pH buffering and therefore has a stabilising effect. It also has a good water retention capacity. It is also characterised by a relatively low salt content and a balanced amount of trace elements with a good binding of nutrients. The compost can contribute to the health of the plant through microbial vitalisation.



Peat substitutes perfectly combined.

RAW MATERIALS & ADDITIVES

Our raw materials – your choice

Renewable peat substitutes



LIGNOFIBRE®c
hydro



LIGNOFIBRE®c
Xtrafine+



LIGNOFIBRE®c



LIGNOFIBRE®



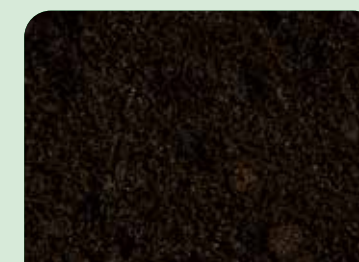
Cocopeat
Typ 30 / 60 / 100



Cocofibre



Coco Chips



Substrate compost



Bark humus



Pine bark

Our raw materials – your choice

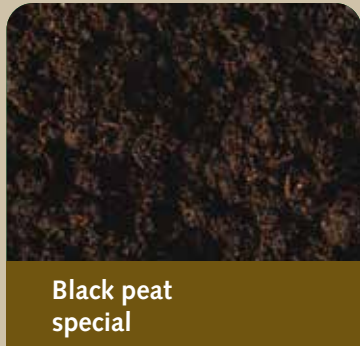
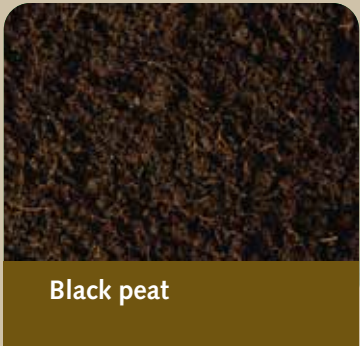
Mineral peat substitutes



Additives and fertiliser



Peat-based raw materials



Your choice – our basis

The basis for our GRAMOFLOR high-performance substrates and soils is this diverse range of both renewable and mineral peat substitutes, high-quality peat, additives and fertilisers. It enables you to make the ideal choice for our GRAMOFLOR substrate and thus for effective, safe and climate-friendly cultivation of your crops.

The most important cornerstones of our raw materials are our three pillars of peat reduction, our wood fibre **LIGNOFIBRE®**, the coconut products **Cocopeat**, **Cocofibre** and **Coco Chips** as well as our quality-assured **substrate compost**. These enable us to successfully reduce peat in our substrates without loss of quality.

Peat as a raw material will continue to play a certain role in commercial horticulture in the coming years. Here, too, we have done our homework and use our own North German peat wherever possible. We extract this in our own upper subsoil process, which involves starting the renaturalisation process at the same time.

You can read more about our commitment to peatland and climate protection on page 39.

RAW MATERIALS IN PROFILE

Ideal properties for your substrate – perfectly combined.

Our substrate starting materials are very heterogeneous in terms of their chemical, physical and biological properties. Depending on the intended use, the desired properties of the substrate are perfectly reproduced through a perfect combination with each other in order to achieve the required physical and chemical properties with pinpoint accuracy.

Raw materials	Chemical properties		Physical properties				Biological properties	Application
	Salinity	pH-value buffering	Air retention/circulation	Influence on stability	Drainage (permeability)	Max. water absorption capacity	Biological activity	Stage of the plant
LIGNOFIBRE®	★★★★ ★★	★★☆☆ ☆☆	★★★★ ☆☆	★★★★ ☆☆	★★★★ ☆☆	★★★★ ☆☆	★★★★ ☆☆	Timber wood propagation, young plants, pot plants, container plants, bucket plants
LIGNOFIBRE®c	★★★★ ★★	★★☆☆ ☆☆	★★★★ ☆☆	★★★★ ☆☆	★★★★ ☆☆	★★★★ ☆☆	★★★★ ☆☆	Sowing & seeding, timber wood propagation, young plants, pot plants, container plants
LIGNOFIBRE®c Xtrafine+	★★★★ ★★	★★☆☆ ☆☆	★★★★ ☆☆	★★★★ ☆☆	★★★★ ☆☆	★★★★ ☆☆	★★★★ ☆☆	Sowing & seeding, cutting, timber wood propagation, young plants, pot plants, container plants
LIGNOFIBRE®c hydro	★★★★ ★★	★★☆☆ ☆☆	★★★★ ☆☆	★★★★ ☆☆	★★★★ ☆☆	★★★★ ★★	★★★★ ☆☆	Sowing & seeding, cuttings, timber wood propagation, young plants, pot plants
Cocopeat Type 30	★★★★ ☆☆	★★★★ ☆☆	★★★★ ☆☆	★★★★ ☆☆	★★★★ ☆☆	★★★★ ★★	★★★★ ★★	Sowing & seeding, propagation, pot plants, container plants
Cocopeat Type 60	★★★★ ☆☆	★★★★ ☆☆	★★★★ ☆☆	★★★★ ☆☆	★★★★ ☆☆	★★★★ ★★	★★★★ ★★	Sowing & seeding, propagation, pot plants, container plants
Cocopeat Type 100	★★★★ ★★	★★★★ ☆☆	★★★★ ☆☆	★★★★ ☆☆	★★★★ ☆☆	★★★★ ★★	★★★★ ★★	Young plants, sowing & seeding, propagation, pot plants, container plants
Cocofibre	★★★★ ★★	★★★★ ☆☆	★★★★ ★★	★★★★ ★★	★★★★ ★★	★★★★ ☆☆	★★★★ ★★	Normally pot and container crop
Coco Chips	★★★★ ☆☆	★★★★ ☆☆	★★★★ ★★	★★★★ ★★	★★★★ ★★	★★★★ ☆☆	★★★★ ★★	Normally pot and container crop
Bark humus	★★★★ ☆☆	★★★★ ☆☆	★★★★ ☆☆	★★★★ ☆☆	★★★★ ☆☆	★★★★ ★★	★★★★ ☆☆	Limited to shares; mainly pot and container plants
Pine bark	★★★★ ☆☆	★★★★ ☆☆	★★★★ ★★	★★★★ ★★	★★★★ ★★	★★★★ ☆☆	★★★★ ☆☆	Limited to shares; mainly container plants
Substrate compost	★★★★ ☆☆	★★★★ ★★	★★★★ ☆☆	★★★★ ☆☆	★★★★ ☆☆	★★★★ ★★	★★★★ ☆☆	Limited to shares; mainly pot and container plants
Expanded clay	★★★★ ☆☆	★★★★ ☆☆	★★★★ ★★	★★★★ ★★	★★★★ ★★	★★★★ ☆☆	★★★★ ★★	Limited to shares; mainly pot and container plants and also specialties like cemetery soils
Perlite 06 mm	★★★★ ★★	★★★★ ☆☆	★★★★ ★★	★★★★ ★★	★★★★ ★★	★★★★ ☆☆	★★★★ ★★	Depending from its fraction size and amount mainly for all applications
Mixed peat fibre	★★★★ ★★	★★★★ ★★	★★★★ ☆☆	★★★★ ☆☆	★★★★ ☆☆	★★★★ ★★	★★★★ ★★	Pot plants, container plants, bucket plants
Black peat	★★★★ ★★	★★★★ ★★	★★★★ ☆☆	★★★★ ☆☆	★★★★ ☆☆	★★★★ ★★	★★★★ ★★	Sowing & seeding, cuttings, timber wood propagation, young plants, pot plants
Black peat special	★★★★ ★★	★★★★ ★★	★★★★ ☆☆	★★★★ ☆☆	★★★★ ☆☆	★★★★ ★★	★★★★ ★★	Press pot young plants
White peat fine	★★★★ ★★	★★★★ ★★	★★★★ ☆☆	★★★★ ☆☆	★★★★ ☆☆	★★★★ ★★	★★★★ ★★	Sowing & seeding, cuttings, timber wood propagation, young plants, pot plants, container plants
White peat medium	★★★★ ★★	★★★★ ☆☆	★★★★ ☆☆	★★★★ ☆☆	★★★★ ☆☆	★★★★ ★★	★★★★ ★★	Timber wood propagation, young plants, pot plants, container plants, bucket plants
White peat coarse	★★★★ ★★	★★★★ ☆☆	★★★★ ☆☆	★★★★ ★★	★★★★ ☆☆	★★★★ ☆☆	★★★★ ★★	Pot plants, container plants, bucket plants

Our raw materials are RAL certified and all peat substitutes are FiBL listed. As of December 2025: Coco Chips have not yet been RAL certified.

BASIC PROFESSIONAL RANGE



From professionals for professionals

The production of standardised and individual substrates for professional horticulture is one of our core competencies. The GRAMOFLO basic professional range includes suitable substrates for ornamental plant cultivation, for tree nurseries, for perennial plants and for the cultivation of vegetables or soft fruit. We keep this range in stock for you with the aim of ensuring short delivery lead times.

In close co-operation with the GRAMOFLO specialist consultant, the substrate formulations are determined on site at the customer's premises and a substrate is recommended according to the existing requirements.

Range	Application	PS rate	CO ₂ -savings*	Raw materials	Additives	pH-value (CaCl ₂)	Structure
CULTIVATION AND PROPAGATION SUBSTRATES							
Presstopf Spezial Article no.: 27603				Available in: 70L BB			
Vegetables	Sowing, press pots, propagation	30%	34%		gramo-MICRO DEPOT, mineral fertiliser	5,6	fine
Tray superfine Article no.: 31883				Available in: 70L BB			
Vegetables	Sowing, propagation	15%	39%		gramo-MICRO DEPOT, mineral fertiliser	5,6	super fine
Aussaat Tray Article no.: 3821				Available in: 70L BB			
Vegetables	Sowing, propagation,	15%	47%		gramo-MICRO DEPOT, mineral fertiliser	5,6	super fine
GRAMOSEMI Article no.: 2050				Available in: 70L			
Vegetables	Sowing, propagation	15%	49%		gramo-MICRO DEPOT, mineral fertiliser	5,8	super fine – fine
Presstopf Tray Article no.: 2001				Available in: 70L			
Vegetables	Sowing, press pots, propagation	15%	25%		gramo-MICRO DEPOT, mineral fertiliser	5,6	fine

PS = Peat substitution
* Calculated CO₂-savings using HORTICERT GHG methodology vs. 100% peat. Basis: ex works, loose.

LEGEND: Raw Materials

White peat

Mixed peat fibre

LIGNOFIBRE® (wood fibre)

Expanded clay



















Black peat

Coco







Perlite 0-6



























Substrate compost


Bark humus

Range	Application	PS rate	CO ₂ -savings*	Raw materials	Additives	pH-value (CaCl ₂)	Structure
CULTIVATION AND PROPAGATION SUBSTRATES							
Tray media Article no.: 3236 Available in:   							
Vegetables, potted plants	Sowing, press pots, pricking	25%	48%		gramo-MICRO DEPOT, mineral fertiliser	5,6	medium
GRAMOSEMI+PERL Article no.: 2051 Available in:  							
Vegetables	Sowing, propagation	30%	54%		gramo-MICRO DEPOT, mineral fertiliser	5,7	superfine fine
Aussaat/Vermehrung MO Article no.: 23001 Available in:  							
Vegetables, herbs	Sowing, propagation	30%	49%		gramo-MICRO DEPOT, mineral fertiliser, MO-Combi	5,6	fine
BIO Presstopf Article no.: 35174 Available in:   							
Vegetables	Sowing, propagation, press pots	30%	27%		gramo-MICRO DEPOT, deposit fertiliser, organic liquid	5,6	fine
BIO Aussaat/Semi+Depot Article no.: 24741 Available in:   							
Vegetables, herbs, potted plants	Sowing, propagation	50%	59%		Deposit fertiliser, organic liquid	5,8	fine

LEGEND: Raw Materials




























 White peat
  Mixed peat fibre
  LIGNOFIBRE® (wood fibre)
  Expanded clay
  Black peat
  Coco

Range	Application	PS rate	CO ₂ -savings*	Raw materials	Additives	pH-value (CaCl ₂)	Structure
POT SUBSTRATES							
Topf-LF+TonL Article no.: 24731 Available in:   							
Bedding & balcony plants, perennials, potted plants	Potting final pot	45%	57%		gramo-MICRO DEPOT, mineral fertiliser, clay	5,8	according to agreement
TR70 Universal Article no.: 34180 Available in: 							
Bedding & balcony plants, perennials, potted plants	Potting from pot size 9 cm	70%	68%		gramo-MICRO DEPOT, mineral fertiliser	5,5	medium fibrous
Topf/Pikier Article no.: 2003 Available in:   							
Bedding & balcony plants, vegetables, potted plants	Young plants, pricking	40%	57%		gramo-MICRO DEPOT, mineral fertiliser	5,8	medium fibrous
Topf/Pikier+TonL Article no.: 2004 Available in:   							
Bedding & balcony plants, vegetables, potted plants	Bedding plants (also primula/viola) from pot size 9 cm	40%	57%		gramo-MICRO DEPOT, mineral fertiliser, clay	5,8	medium fibrous
Topf Article no.: 2005 Available in:   							
Bedding & balcony plants, herbs, potted plants	Potting final pot	40%	55%		gramo-MICRO DEPOT, mineral fertiliser	5,8	medium coarse fibrous
Topf+TonL Article no.: 10955 Available in:   							
Bedding & balcony plants, potted plants	Potting final pot	40%	52%		gramo-MICRO DEPOT, mineral fertiliser, clay	5,6	medium coarse fibrous
Topf+TonXL Article no.: 2006 Available in:   							
Bedding & balcony plants, potted plants	Potting final pot	40%	55%		gramo-MICRO DEPOT, mineral fertiliser, clay	5,8	medium coarse fibrous







 Perlite 0-6
  Substrate compost
  Bark humus



















PS = Peat substitution rate

* Calculated CO₂-savings using HORTICERT GHG methodology vs. 100% peat. Basis: ex works, loose.

Range	Application	PS rate	CO ₂ -savings*	Raw materials	Additives	pH-value (CaCl ₂)	Structure
POT SUBSTRATES							
Topf+TonXL+Depot Article no.: 17375				Available in:   			
Bedding & balcony plants, potted plants	Potting final pot	40%	54%		gramo-MICRO DEPOT, mineral fertiliser, deposit fertiliser, clay	5,8	medium coarse fibrous
Topf+TonL+Perl Article no.: 10956				Available in:   			
Bedding & balcony plants, potted plants	Potting final pot	40%	56%		gramo-MICRO DEPOT, mineral fertiliser, clay	5,6	according to agreement
TR50 Universal Article no.: 30820				Available in:   			
Bedding & balcony plants, perennials, potted plants	Potting final pot	50%	54%		gramo-MICRO DEPOT, mineral fertiliser, clay	5,8	according to agreement
Torffrei Universal Article no.: 32598				Available in:   			
Container plants, herbs, perennials, potted plants	Soft irrigation water is essential, only plants with pH > 5.5	100%	77%		gramo-MICRO DEPOT, mineral fertiliser	5,8	according to agreement
Topf/Pikier-LF+TonL+MO Article no.: 24726				Available in:   			
Bedding & balcony plants, vegetables, potted plants	Young plants, pricking	35%	55%		gramo-MICRO DEPOT, mineral fertiliser, MO-Combi, clay	5,8	medium – medium coarse fibrous
Topf+TonL+Depot Article no.: 13686				 			
Bedding & balcony plants, perennials, potted plants	Potting final pot	40%	52%		gramo-MICRO DEPOT, mineral fertiliser, deposit fertiliser, clay	5,6	medium coarse fibrous
Topf-LFc TPI Article no.: 25936				Available in:   			
Potted plants, special cultures	Potting final pot	40%	56%		gramo-MICRO DEPOT, mineral fertiliser, clay	5,8	medium coarse fibrous

LEGEND: Raw Materials



























 White peat
  Mixed peat fibre
  LIGNOFIBRE® (wood fibre)
  Expanded clay
  Black peat
  Coco

Range	Application	PS rate	CO ₂ -savings*	Raw materials	Additives	pH-value (CaCl ₂)	Structure
POT SUBSTRATES							
BIO Universal-LF+Depot Article no.: 24727				Available in:  			
Bedding & balcony plants, herbs, perennials, potted plants, container	Young plants, potting final pot	55%	61%		Organic liquid, deposit fertiliser	5,8	medium – medium coarse fibrous
Topf/Cont-LF+TonL+Depot Article no.: 28162				Available in:  			
Bedding & balcony plants, container plants, herbs, perennials	Container, potting final pot	50%	55%		gramo-MICRO DEPOT, mineral fertiliser, deposit fertiliser, clay	5,5	according to agreement
CONTAINER SUBSTRATES							
Container Article no.: 2007				Available in:   			
Container plants	Potting, container	35%	56%		gramo-MICRO DEPOT, mineral fertiliser	5,8	according to agreement
Container+TonL Article no.: 2008				Available in:   			
Container plants	Potting, container	35%	56%		gramo-MICRO DEPOT, mineral fertiliser, clay	5,5	according to agreement
Container-LFc TPI Article no.: 25943				Available in:   			
Container plants, poinsettien, potted plants	Potting, container	50%	64%		gramo-MICRO DEPOT, mineral fertiliser, deposit fertiliser	5,5	according to agreement







 Perlite 0-6
  Substrate compost
  Bark humus






















PS = Peat substitution

* Calculated CO₂-savings using HORTICERT GHG methodology vs. 100% peat. Basis: ex works, loose.

Range	Application	PS rate	CO ₂ -savings*	Raw materials	Additives	pH-value (CaCl ₂)	Structure
SPECIAL SUBSTRATES							
Paperpot-Plus+CC+MO Article no.: 18321				Available in:   			
Plug	Rooting	45%	61%		gramo-MICRO DEPOT, mineral fertiliser, MO-Combi	5,7	fine
Paperpot-Special+Perl+MO Article no.: 14680				Available in:   			
Plug	Rooting	60%	66%		gramo-MICRO DEPOT, mineral fertiliser, clay	5,6	fine
Friedhof+Wasserspeicher Article no.: 4804				Available in:  			
Cemetery	Planting & fine covering substrate	45%	48%		Mineral fertiliser, clay	5,6	fine
Friedhof (spezial) Article no.: 4450				Available in:   			
Cemetery	Planting & fine covering substrate	45%	48%		Mineral fertiliser, clay	5,6	fine
Calluna Topf-LF Article no.: 24735				Available in:  			
Calluna	Potting final pot	30%	54%		gramo-MICRO DEPOT, mineral fertiliser	4,2	medium coarse fibrous
Cycl.-/Poin.-LFC+TonL+MO Article no.: 25945				Available in:   			
Cyclamen, Poinsettion	Potting final pot	50%	65%		gramo-MICRO DEPOT, mineral fertiliser, MO-Combi, clay	5,8	according to agreement
Primula/Viola+TonXL Article no.: 3196				Available in:   			
Primula, Viola	Potting final pot	25%	53%		gramo-MICRO DEPOT, mineral fertiliser, clay	5,7	medium – medium coarse fibrous

LEGEND: Raw Materials

 White peat
  Mixed peat fibre
  LIGNOFIBRE® (wood fibre)
  Expanded clay
  Black peat
  Coco

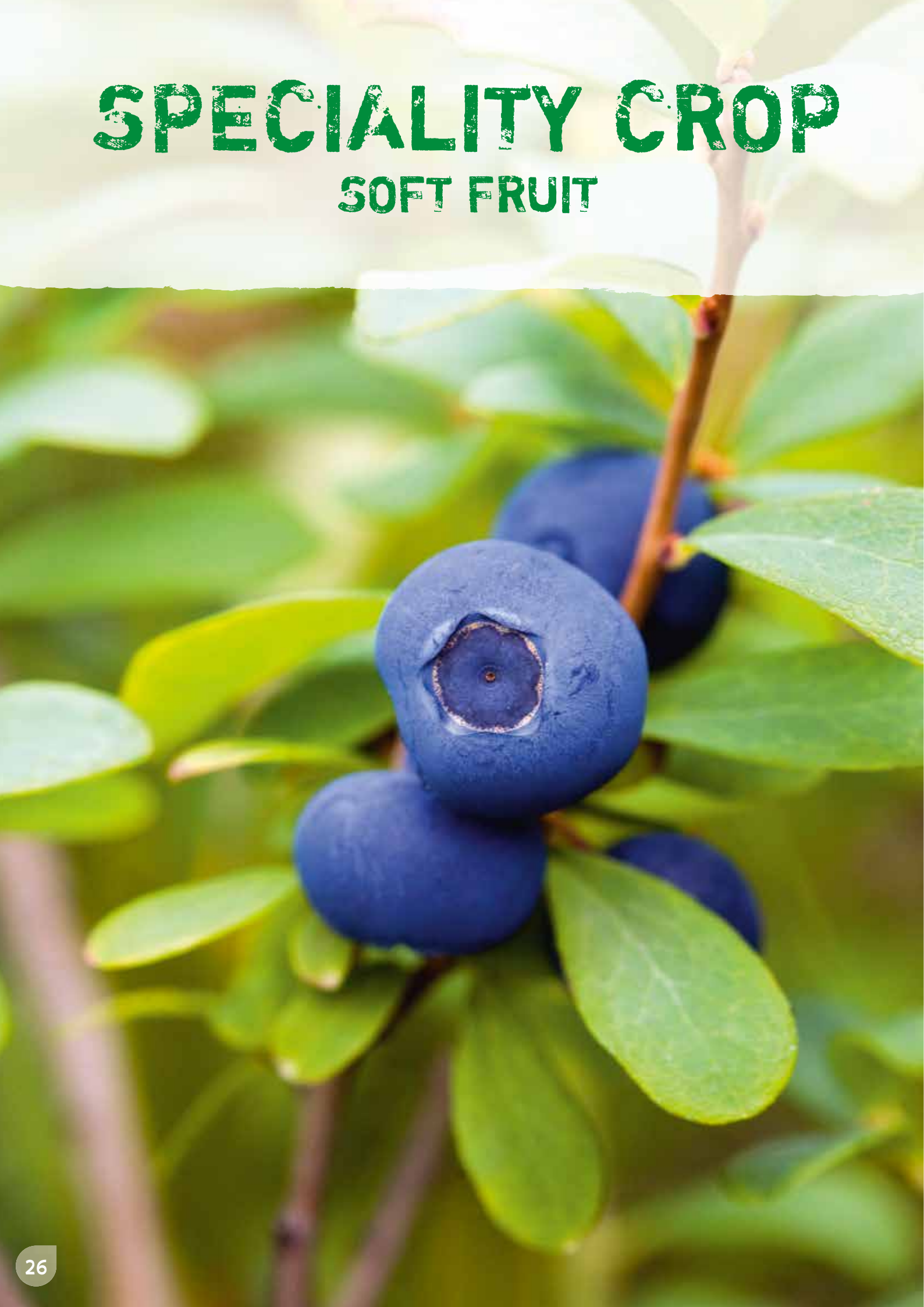
Range	Application	PS rate	CO ₂ -savings*	Raw materials	Additives	pH-value (CaCl ₂)	Structure
SPECIAL SUBSTRATES							
Primula/Viola+TonL+Depot Article no.: 17427				Available in:   			
Primula, Viola	Potting final pot	30%	57%		gramo-MICRO DEPOT, mineral fertiliser, deposit fertiliser, clay	5,7	medium – medium coarse fibrous
Surfinia+TonXL Article no.: 9443				Available in:   			
Surfinia	Potting final pot	30%	55%		gramo-MICRO DEPOT, mineral fertiliser, clay	4,8	according to agreement
Surfinia-LFC+TonL+Depot Article no.: 25947				Available in:   			
Surfinia	Potting final pot	30%	50%		gramo-MICRO DEPOT, mineral fertiliser, deposit fertiliser, clay	5,6	medium coarse fibrous
Topf-Berry Red Article no.: 30644				Available in:  			
Strawberries, Raspberries	Planting substrate	70%	70%		gramo-MICRO DEPOT, mineral fertiliser	5,5	medium – medium coarse fibrous
Topf-Blueberry Article no.: 35172				Available in:  			
Blueberries (bog bedding plants)	Planting substrate	65%	68%		gramo-MICRO DEPOT, mineral fertiliser	4,5	according to agreement
GF-Containermulch Spezial Article no.: 31393				Available in:  			
Mulching material	Covering material, container	100%	95%				according to agreement

PS = Peat substitution

* Calculated CO₂-savings using HORTICERT GHG methodology vs. 100% peat. Basis: ex works, loose.

SPECIALITY CROP

SOFT FRUIT



Substrates for safe an high-yield cultivation

Are you looking for a suitable substrate for growing soft fruit such as strawberries, raspberries or blueberries? Our **GRAMOFLOR soft fruit substrates** offer you the optimum solution for crop-safe cultivation and high yields – customised to your farm.

Substrate	Structure	Application	pH-value (CaCl ₂)	PS rate	Raw materials	Additives	Art.-Nr.
Topf-Berry Red	medium – medium coarse fibrous	Universal soft berry substrate for strawberries and raspberries.	5,5	70%		Mineral fertiliser, gramoMICRO-DEPOT	30644
Raspberry (Long-Canes) + Strawberries	according to agreement	Especially for long canes + remontant strawberries in common cultivation methods. Increased substrate moisture.	5,8	55%		Mineral fertiliser, gramoMICRO-DEPOT	34603
Topf-Blueberry	according to agreement	Universally applicable, highly peat-reduced container substrate for blueberries. Increased substrate moisture	4,5	65%		Mineral fertiliser, gramoMICRO-DEPOT	35172
Strawberries	according to agreement	Proven, highly peatreduced substrate for strawberries in common cultivation methods outside the natural soil.	5,4	75%		Mineral fertiliser, gramoMICRO-DEPOT	29115

LEGEND: White peat Mixed peat fibre LIGNOFIBRE® (wood fibre) Coco Perlite 0-6 PS = Peat substitution

All advantages at a glance

- ① Greater **crop safety** because of protected cultivation and the use of substrates
- ② More **reliability and controllability** thanks to standardised, safe raw materials
- ③ Protected cultivation **enables higher yields** with good fruit quality
- ④ **Optimum adaptation** to the cultivation method, e.g. cultivation of young plants, yield cultivation in containers, on gutters, racks or as ridge cultivation
- ⑤ **Tried and also completely customised** substrates
- ⑥ **On-site support**



In addition, we offer individual and therefore highly specialised substrate solutions according to customer-specific requirements.

INDIVIDUAL SUBSTRATE REQUEST



Customised and tailored to your culture

Our extensive basic professional range does not have the right professional substrate for you? No problem: GRAMOFLO also offers individual and therefore highly specialised substrate solutions.

The GRAMOFLO specialist consultant develops the customised special mixture on site in consultation with the customer. Here, too, peat reduction and crop safety

have top priority. Our GRAMOFLO consultants know what is important in professional cultivation management: they can look back on many years of experience and are horticultural technicians, master craftsmen or horticultural engineers. Throughout the entire cultivation period, they are at your side with commitment and advice.

As part of a comprehensive service, we analyse the customer-specific requirements of your crops at the start of the cultivation planning phase. Especially for substrates with a higher peat substitute content, the desired properties of the substrate are then matched with the raw materials and nutrient combinations for the start-up phase using our nutrient calculator (gramoNUTRI-concept). Here we draw on extensive data collection and years of expertise.

The gramoNUTRI-concept enables sustainable and economical crop planning in the start-up phase, as it only contains components that are actually needed.



**gramoNUTRI®
concept**

- Nutrient optimisation when using peat substitutes
- Professional advice with precise nutrient calculation for the start phase
- Consideration of N-immobilisation of all substrate components



MO-CONCEPT



Natural vital substances

The regular use of pesticides is known to be a risk factor for humans and plants. **MO-CONCEPT** offers an innovative, natural alternative! This intelligent complex of plant-strengthening fungi and soil bacteria promotes vigorous, stress-free plant growth and almost completely reduces the need for chemical plant protection products in the root zone.

The result: healthy, residue-free plants, safe cultivation times and considerable savings on pesticides – a sustainable winwin situation for your business. **MO-CONCEPT** combines the high-performance substrate mix **MO-COMBI®** with the post-treatment solutions **MO-VITAL®** or **MO-VITAL 5X®** to create a comprehensive system for healthy and successful plant cultivation.

Your 10 advantages at a glance

- ① **Healthy start** for almost all horticultural crops
- ② **Better rooting**
- ③ Uniform, **vigorous stock** from the beginning to the end of the crop
- ④ **Reduced failure** in young plant production
- ⑤ Improved **stress resilience** (drought, moisture, transport, etc.)
- ⑥ Increased **resistance**
- ⑦ **Avoidance of plant stress** caused by the degradation of chemical active ingredients
- ⑧ **Free from residue**
- ⑨ **Without chemical components**
- ⑩ When handled properly, **no stress** on the environment and employees



HOBBY SOILS

BIO & PEAT FREE



Professional quality hobby soils

Our promise “Quality from the start!” applies not only to the professional gardener, but also to the hobby gardener at home. With our high-quality hobby soil range in professional quality, we support the discerning garden enthusiast in caring for their plants.

All hobby soils are at least **peat reduced**. In addition to verifiably responsibly sourced peat, they use renewable, horticulturally processed raw materials such as our **LIGNOFIBRE®** wood fibre, Cocopeat or green waste compost.

Two of our conventional GRAMOFLO soils are completely peat-free: Tomaten- & Gemüseerde torffrei and Blumenerde torffrei.

With our BIO potting soils, we also offer a 100% ecological solution for all gardening enthusiasts who want to consciously avoid peat altogether. They are completely peat-free and offer an environmentally friendly alternative for every garden.



Bio & peat-free

Our series for growth with a clear conscience – 100% ecological

Bio Blumen- & Pflanzeerde



Article no.: 1032

Peat-free organic universal soil with purely organic fertiliser. Particularly suitable for raised beds, also for larger bedding and balcony plants, perennials and other ornamental plants as well as for repotting. Can also be used outdoors and for filling plant holes.

Peat substitution rate: 100%

CO₂-savings*: 70%

Available in:



peat free

Bio Kräuter- & Gemüseerde



Article no.: 1037

Peat-free organic soil for the organic cultivation of herbs and vegetables. Ideal for the further cultivation of young vegetable plants, as seedling soil and for planting herb beds. The nourishing fertiliser is purely organic.

Peat substitution rate: 100%

CO₂-savings*: 74%

Available in:



peat free

* Calculated CO₂-savings using HORTICERT GHG methodology vs. 100% peat. Basis: ex works, loose.

HOBBY SOILS

GRAMOFLOR & NATURAHUM



GRAMOFLOR soils

Peat-free

Tomaten- und Gemüseerde torffrei



Article no.: 1088

The peat-free vegetable soil is ideal for tomatoes, cucumbers, peppers, aubergines, courgettes, pumpkins, chilli peppers and pepperonies. For self-sufficiency with fruit vegetables in raised beds, tubs or balcony boxes. Mineral fertilisation.

Peat substitution rate: 100%

CO₂-savings*: 73%

Available in:



peat free

Blumenerde torffrei



Article no.: 1457

Mineral-fertilised, well-structured and versatile peat-free potting soil. For spring-flowering plants, bedding and balcony plants as well as perennials and small shrubs. Can be used as an all-rounder for almost all plants in the garden, on the patio, on the balcony and indoors. With depot fertiliser.

Peat substitution rate: 100%

CO₂-savings*: 77%

Available in:



peat free

GRAMOFLOR soils

Our peat-reduced full range for the sophisticated hobby gardener

Blumenerde



Article no.: 1075

Universal soil with clay minerals and micronutrients. It ensures healthy growth of all balcony plants, indoor and garden plants.

Peat substitution rate: 70%

CO₂-savings*: 56%

Available in:



Pflanzerde



Article no.: 1085

This is the perfect soil for planting perennials, shrubs and trees.

Peat substitution rate: 75%

CO₂-savings*: 58%

Available in:



Orchideenerde



Article no.: 1082

This structurally strong material is the ideal soil for orchids and provides for a healthy root climate.

Peat substitution rate: 100%

CO₂-savings*: 95%

Available in:



Pinien-Dekorrinde



Article no.: 1090 (fine)

Article no.: 1091 (medium)

Article no.: 1092 (coarse)

For creative garden design and ground cover, we recommend GRAMOFLOR Pinien-Dekorrinde in coarse, medium and fine grain sizes, depending on requirements. It suppresses weed growth in a natural way and at the same time protects the soil from drying out.

Peat substitution rate: 100%

Available in:



* Calculated CO₂-savings using HORTICERT GHG methodology vs. 100% peat. Basis: ex works, loose.

Balkonpflanzenerde**Article no.: 1078**

This soil ensures splendid growth in all balcony boxes. For all summer-flowering plants such as geraniums, fuchsias, petunias etc.

Peat substitution rate: 70%

CO₂-savings*: 54%

Available in:

**Kübel- & Zitruspflanzenerde****Article no.: 1084**

This soil is the perfect breeding ground for all citrus plants as well as for potted plants such as passion flower, oleander, angel's trumpet, daisies and hibiscus.

Peat substitution rate: 70%

CO₂-savings*: 61%

Available in:

**Kakteenerde****Article no.: 1083**

The cactus soil offers the best nutrient and pH value conditions for cacti and other succulents. It is based on quartz sand and exchangeable clay.

Peat substitution rate: 45%

CO₂-savings*: 52%

Available in:

**Rosenerde****Article no.: 1086**

Roses in pots, tubs and beds are well cared for with this soil and are rewarded with strong flowers and healthy flowers and healthy growth. Clay ensures good rewetting and nutrient buffering.

Peat substitution rate: 60%

CO₂-savings*: 54%

Available in:

**Aussaat- & Jungpflanzenerde****Article no.: 1081**

Specialised soil for sowing and growing of young plants. In addition it can be used for pricking out and propagation of cuttings.

Peat substitution rate: 55%

CO₂-savings*: 47%

Available in:

**Naturahum potting soils**

Good quality at an attractive price

Blumen- und Pflanzenerde**Article no.: 1250**

Universal soil for all indoor, balcony and patio plants. It is a soil rich in structure that is also suitable for planting perennials, shrubs and trees and ensures vital plant growth.

Peat substitution rate: 70%

CO₂-savings*: 60%

Available in:

**Graberde****Article no.: 1052**

A dark soil that is ideal for planting and covering graves.

Peat substitution rate: 55%

CO₂-savings*: 44%

Available in:

**Graberde****Article no.: 1080**

Fine crumbly and deep dark special soil for decorative covering of graves and for grave planting.

Peat substitution rate: 50%

CO₂-savings*: 36%

Available in:

**Rhododendron- & Moorbeeterde****Article no.: 1079**

Special soil for plants that require a low pH value (< 5.0). These include bog bedding plants such as rhododendrons, azaleas and heathers.

Peat substitution rate: 50%

Available in:

**Rindenmulch****Article no.: 1258**

A natural coniferous wood bark for decorative and practical ground cover.

Peat substitution rate: 100%

Available in:

**Gärtnersubstrat**

Professional quality from the gardener you trust

Gärtnersubstrat**Article no.: 1025**

Your own tried-and-tested formula for your customers or from our professional basic range – for lush and healthy plant growth.

Peat substitution rate: 70%

CO₂-savings*: 60%



* Calculated CO₂-savings using HORTICERT GHG methodology vs. 100% peat. Basis: ex works, loose.

* Calculated CO₂-savings using HORTICERT GHG methodology vs. 100% peat. Basis: ex works, loose.

RENATURATION OF RAISED BOGS



We create living raised bogs



In northern Germany, peat extraction is being used to create genuine CO₂ reservoirs exclusively on land that was previously used for agriculture. Living raised bogs are being developed in the interests of peatland and climate protection and this work will later be handed over to the "Lebensraum Moor" foundation set up by GRAMOFLOR in 2012.

The non-profit nature conservation foundation under civil law follows the guiding principle of contributing to a respectful

GRAMOFLOR's roots lie in the agricultural history of the founding Gramann family, which has always been closely associated with the peatlands of northern Germany. This gave rise to Josef and Gabriela Gramann's deep attachment

and responsible approach to nature. Its objective is the preservation and further development of the raised bog areas – safeguarded for generations. The foundation also aims to promote moorland and nature conservation, ecological education and research and development.



With our many years of expertise and in cooperation with nature conservation organisations, we can also create permanent nature conservation areas and climatefriendly CO₂ sinks. Together, we are working on exemplary and forward-looking moorland restoration projects, such as in the "Ahlen-Falkenberger Moor" (implemented via the NABU Climate Fund) and, most recently, in the "Großes Moor" in Neuenkirchen-Vörden. This will be realised via the NABU climate fund. With all these measures, we are wholeheartedly committed to the restoration of living raised bogs – yesterday, today and in the future!

to the moorland habitat, which continues to this day, and the renaturalisation work that GRAMOFLOR has been carrying out for years on former peat extraction areas.

Over many years, the company has developed its own upper subsoil process, in which renaturalisation takes place during peat extraction. This creates the best possible conditions for successful raised bog development. The process is now also recognised by renowned nature conservation organisations.



STIFTUNG
**Lebensraum
Moor**

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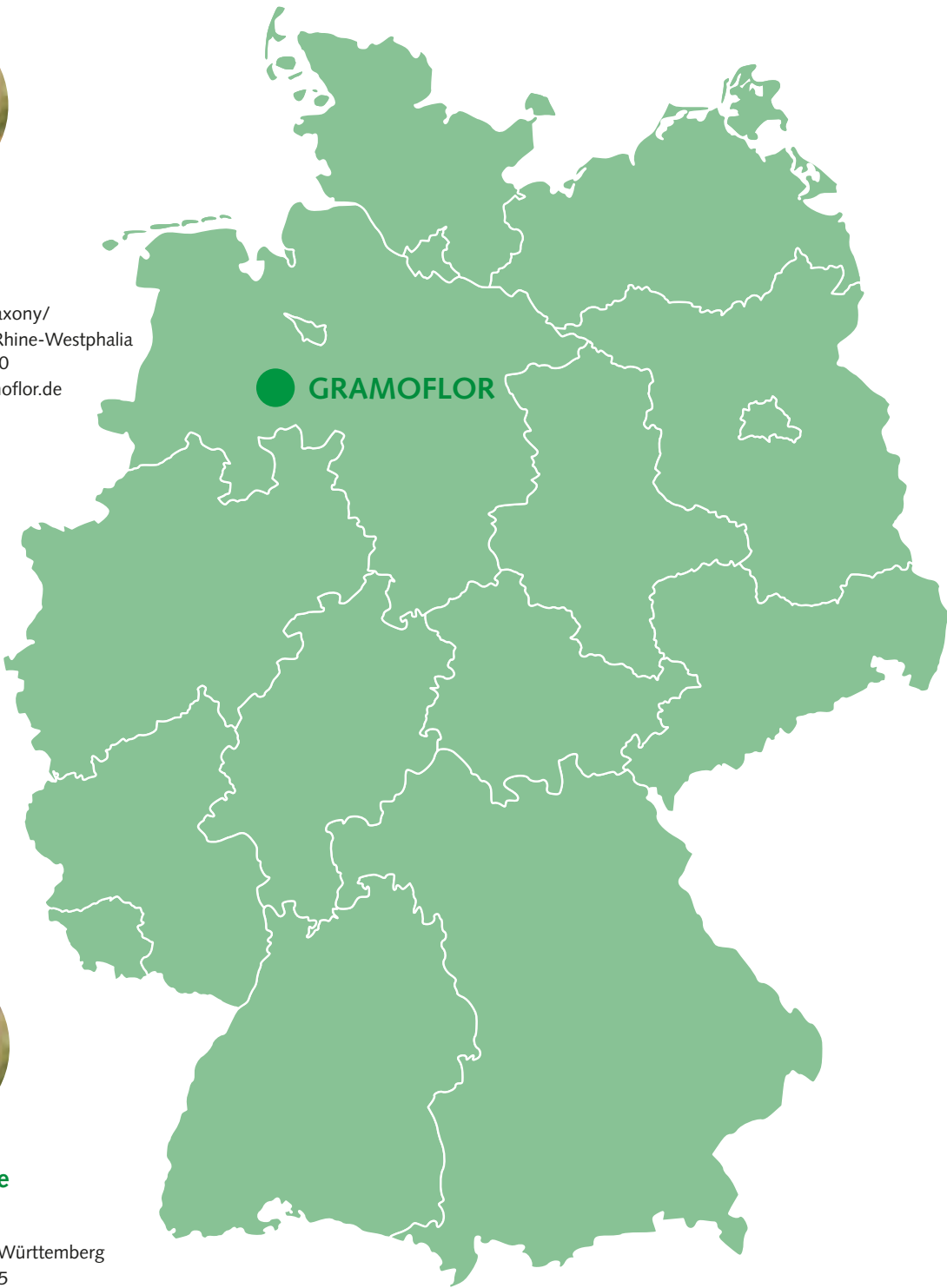
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Quality from the start!



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