



**FOR
RESPONSIBLE
GROWTH**

WE INTEND SAVING
RESOURCES

GRAMOFLOR

quality from the start!

LIGNOFIBRE[®]

*Quality wood fibre
- a renewable and
regional resource*

**FROM OWN
PRODUCTION**

10 BENEFITS OF LIGNOFIBRE® (WOOD FIBRE):

- ① renewable, regional resources
- ② well-balanced air capacity
- ③ good drainage characteristics
- ④ fast re-wettability
- ⑤ high structural stability, low shrinkage
- ⑥ fast drying of substrate surface
- ⑦ low fixation of nitrogen
- ⑧ meets RAL quality criteria for wood fibres
- ⑨ available in the 3 following qualities:
 1. uncoloured medium coarse (approved by EC organic standard No 889/2008)
 2. coloured medium
 3. coloured extra fine
- ⑩ Gramoflor's own technology (like "comb out technique") which improves the substrate-structure



The dosage is very regularly

Gramoflor is a quality supplier of soil and substrates for the professional horticulture and we invest constantly in our own production factories to fulfill the requirements of the market and of our customers.



At the present the professional horticulture still can't work without peat, but also renewable and regional resources gain in importance, now and in the future. Considering the crop safety and for **saving limited resources** peat will be reduced as much as possible in our substrates.

This consistent way by Gramoflor will be established with the investment in **our own technology**. Next to the North German Peat we now have our own wood fibre (**LIGNOFIBRE®**) qualities, too.

Therefore we have both main resources in our own hands and this is a great benefit for the quality of our products.

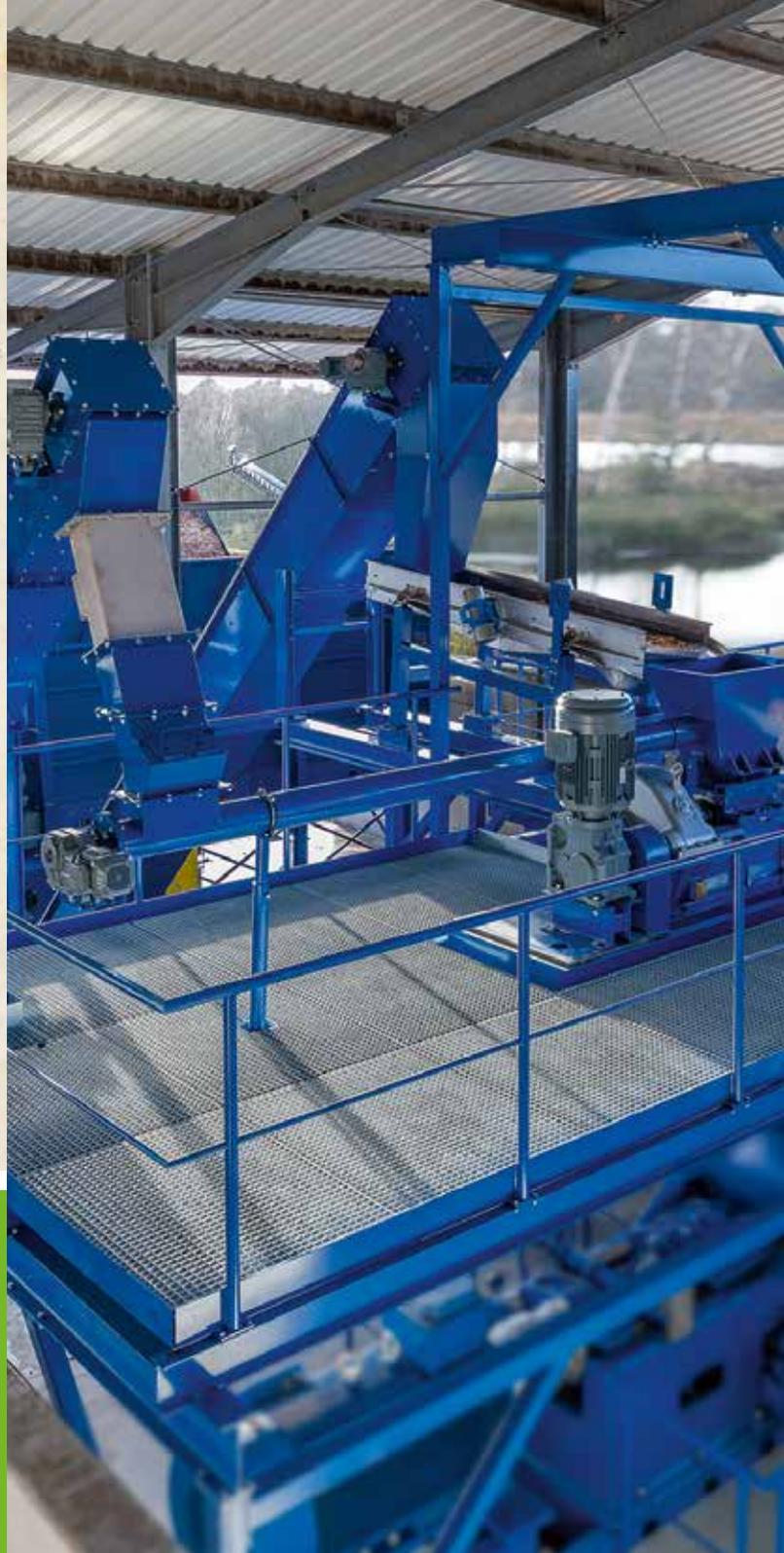
Josef Gramann,
Managing Director
of the family company Gramoflor

Quality wood fibre **LIGNOFIBRE®** - from own production

Today the wood fibre is an established raw material for producing substrates and soils. The demand of peat reduced and peat free products is rising.

The own technology of Gramoflor is absolutely up to date. Wood chips from sawmills with assured quality become by a thermal-mechanical separation wood fibres which are very suitable for professional substrates and soils. Therefore the experiences of the last years have influenced the development work. With **LIGNOFIBRE®** Gramoflor guaranteed wood fibres in top quality.

The own technology is also a great support for the research and development department and innovative ideas can be advanced.



Quality wood fibre LIGNOFIBRE®

- available in three variants :

1. LIGNOFIBRE® uncoloured

For a visible peat reduction and also suitable for organic substrates. The structure is medium coarse.

2. LIGNOFIBRE®c coloured

This raw material ensures a more homogeneous look with a medium structure.

3. LIGNOFIBRE®c Xtrafine

This wood fibre is extra fine, also coloured and very good for a structure as homogeneous and fine as possible.

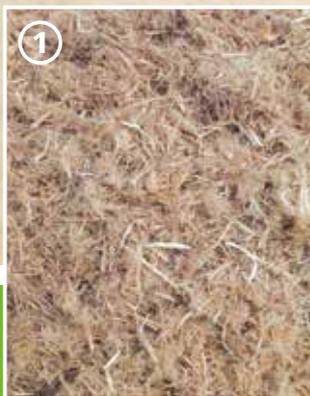
For many years Gramoflor offers peat in different structures and substrates can adjust from **super fine** to **super coarse**, depending on the plants which are cultivated. According to this example, also the wood fibre is now available in different structures. Thereby peat reduced substrates can be **ideally adapted to the different cultural requirements**.

Some professional substrates, for example container crops, need a very fibrous structure and for example substrates for propagation should be rather finer. In potting soils for the hobby gardeners, the wood fibre preferably shouldn't be visible.

Especially for press pots, propagation and potting substrates (pot size 9 and 11) a very fine structure is very suitable because it offers a very homogeneous structure and optic.

The quality characteristics of LIGNOFIBRE®

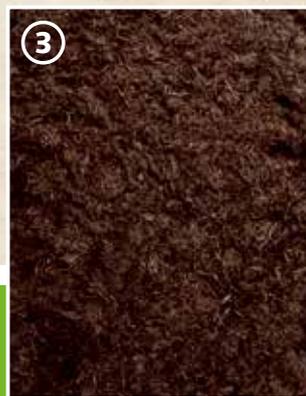
parameter	values
ph-value (CaCl ₂)	+/- 5,5
salt	max. 0,2 g/l
N, P ₂ O ₅ , K ₂ O	< 50 mg/l
N-fixation	< 135 mg N/l
weight according to DIN EN 12580	+/- 75 kg/m ³
water capacity	25 – 30 %



LIGNOFIBRE®
uncoloured



LIGNOFIBRE®c
coloured



LIGNOFIBRE®c
Xtrafine

Using wood fibre to reduce the carbon footprint

The wood fibre **LIGNOFIBRE®** is a renewable and regional resource and is therefore able to improve the carbon footprint of the substrates and soils.



Customer statements for the wood fibre **LIGNOFIBRE®**:



Tristan Heinen-Bizjak

Tristan Heinen-Bizjak, Bert Schmitz horticulture: „Resources are saved by using wood fibres and thus reducing the peat content of substrates.

The airy structure of the wood fibre offers the advantage of an improved root development during cultivation. Furthermore it offers a better ability to water and dry the upper substrate areas. Especially when used outside the wood fibre offers a good protection against excessive moisture levels e.g. in case of heavy rain falls. When using high proportions of wood fibre the user has to pay attention to varying intervals of watering.“



Alexander Weidemann:

„On recommendation of our Gramoflor consultant Dirk Müller and because of searching for an alternative of the limited resource peat, we are now using wood fibre in the substrates for Poinsettias, Primula, Balerina and in future also for B&B. The constant substrate and hence the plant quality, comparable to pure peat substrates, have convinced us.“

Herr Weidemann, jr. presented the good rooting of an ranunculus

Reducing the carbon footprint





Manfred Rieke

Manfred Rieke, owner Rieke Blumen:

*„We are using the wood fibre **LIGNOFIBRE®** since 2013 in the substrates for the cultures of Calluna, Gaultheria and also for perennials, because the demand for peat alternatives is rising. The quality of the substrate will be influenced by improving the structure and the air capacity. We have made the experience, that more water is needed and that the nutrient need is a bit higher.“*



Wolfgang Köchl
Vertrieb
Sales manager AT

Wolfgang Köchl:

„We are using substrates with wood fibre for a long time. After first contact fears, it turned out, that wood fibre has very positive characteristics regarding structure stability and water distribution and the air capacity in the substrate. Particularly for special cultures, like poinsettia and cyclamen, but also for azerca, the wood fibre is an enrichment. And also the price advantage is a theme.“



Prostovoljno združenje z vrtnarji.

Damjan Pernovsek, NJIVA d.o.o., Slovenien: *„We started in 2014 to use the wood fiber **LIGNOFIBRE®** in the substrates. In the first step, the pricing of the wood fiber has convinced us. We use it mainly for the cultivation of balcony plants, where it provides for good root development due to the airy structure.“*



Andreas Kirschenlohr: *„In our substrates for all perennials, grasses and ferns in 9x9 and 11x11 square pots wood fibre is fully usable. It is characterized by perfect water flow and it helps to prevent waterlogging.“*

An excellent rooting from the company Kirschenlohr



For more information
www.gramoflor.com



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Gramoflor GmbH & Co. KG · Diepholzer Straße 173 · D-49377 Vechta · Germany
Phone: +49 4441 9997-0 · Fax: +49 4441 9997-70
E-Mail: info@gramoflor.de · Web: www.gramoflor.de