



FROM FIELD TO FIBRE

TEXTILE FIBRES

MADE

FROM **HEMP**

MADE IN GERMANY



OUR PREMIUM QUALITY

## ELEMENTARY FIBRES

Felde provides the highest possible quality of hemp fibres: elementary fibres.

In the hemp plant, the fibres are fixed together by lignin to form a sheath around the wooden core of the stem, exactly like linen. Most known hemp and linen fabric qualities consist of such fibre bundles where the fibres are still fixed together. These bundles result in a coarse handfeel and irregular appearance of fabrics.

The holy grail therefore lies in removing the lignin in order to achieve individual, elementary fibres all the while preserving their strength.

With this quality our hemp fibres provide fabrics with an unmatched soft handfeel and clean appearance.



## THE ADVANTAGES OF HEMP IN TEXTILES

# WEARING PROPERTIES

Hemp naturally comes feature-packed with high-quality properties:

### High tensile strength

→ fabrics and garments last longer

### Long-lasting freshness

→ fabrics and garments don't take up odours from e.g. sweat etc.

### High breathability

→ highly comfortable to wear, especially in direct contact with the skin as a first layer

### UV-resistance

→ natural high UV-protection, particularly well-suited for kids and babies

Combining so many **HIGH-PERFORMANCE** characteristics without the use of additives makes hemp a true **NATURAL WONDER**



OUR HEMP FIBRES CAN BE USED IN MULTIPLE

## APPLICATIONS

Elementary fibres can easily be spun with conventional spinning technology and can therefore be made into virtually all types of fabrics.

### RING- AND OE-SPINNING

For ring- and oe-spinning we mechanically shorten (cottonise) our hemp fibres to be mixed with cotton, Tencel, recycled polyester etc.

### LONG STAPLE SPINNING

In its natural staple length our hemp fibres can be used for combed and worsted yarns in mixes with wool, Tencel, recycled polyester etc.

### NON-WOVEN

In non-woven applications, our hemp fibres can be mixed with any other fibre to lend its beneficial properties to waddings, bedding products, fillings etc.



FINISHED PRODUCTS WITH FELDE HEMP

## OUR MANUFACTURER'S NETWORK

Whether you are a brand, fabric manufacturer or spinning mill we will assist you in manufacturing and sourcing.

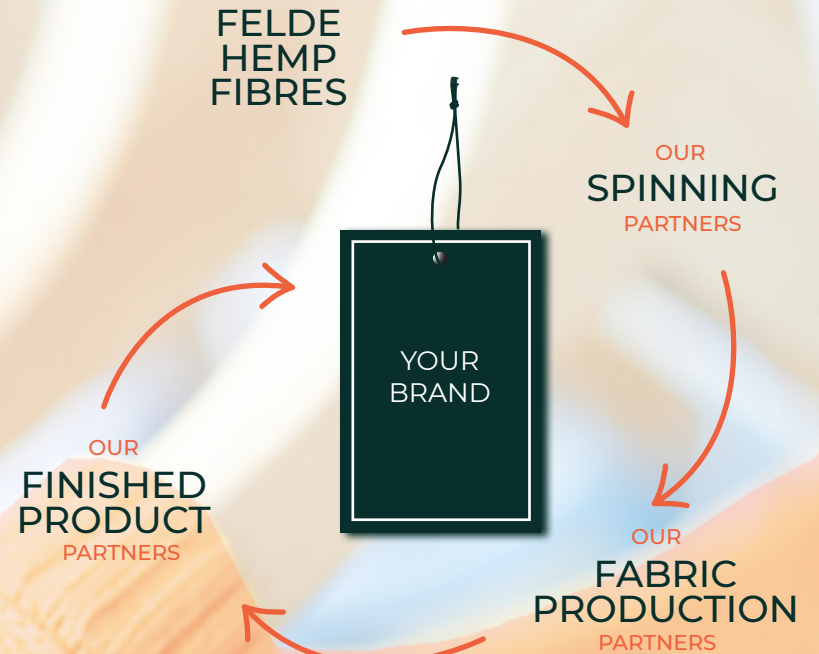
With a sales team of industry experts, we have contacts to all steps of manufacturing on all continents.

### WANT TO WORK WITH YOUR EXISTING SUPPLIERS?

→ WE CAN HELP THEM SOURCE YARNS AND FABRICS WITH OUR FIBRES.

### LOOKING FOR NEW SUPPLIERS?

→ WE WILL CONNECT YOU WITH MANUFACTURERS ACCORDING TO YOUR NEEDS.



FIND THE RIGHT FIBRE FOR YOUR APPLICATION

## OUR PRODUCTS

1

PRODUCT: HCDN - HEMP FIBRES CARDED + DEGUMMED, NATURAL COLOR



FIBRE LENGTH: 50-60 mm

COLOR: natural

APPLICATION: worsted yarns, fillings or waddings

*NOTE: Natural color varies per farmer lot.*

2

PRODUCT: HCDB - HEMP FIBRES CARDED + DEGUMMED + BLEACHED



FIBRE LENGTH: 50-60 mm

COLOR: white (bleached)

APPLICATION: worsted yarns, fillings or waddings

FIND THE RIGHT FIBRE FOR YOUR APPLICATION

## OUR PRODUCTS

3

PRODUCT: HCDCN - HEMP FIBRES CARDED + DEGUMMED + COTTONIZED, NATURAL COLOR



FIBRE LENGTH: 30-40 mm

COLOR: natural

APPLICATION: suitable for ring spinning,  
O/E rotor spinning and non woven applications

*NOTE: Natural color varies per farmer lot.*

4

PRODUCT: HCDCB - HEMP FIBRES CARDED + DEGUMMED + COTTONIZED + BLEACHED



FIBRE LENGTH: 30-40 mm

COLOR: white (bleached)

APPLICATION: suitable for ring spinning,  
O/E rotor spinning and non woven applications



MULTI-TALENT HEMP

# EXAMPLES OF APPLICATIONS

DRESSES

SHIRTING

SWEAT/TERRY

HOME TEXTILES

JERSEY

UPHOLSTERY

WADDING

TAILORING

FILLING

DENIM



WE HAVE CONFIDENCE IN OUR QUALITY

# CERTIFICATION

Felde Fibres is the only company worldwide to be GOTS-certified for all three bast fibers mainly found in Europe: hemp, nettle, and linen.



Certified by CU1026370



For our conventional fibres we are also certified by OEKO-TEX® Standard 100 for Hemp and European Stinging Nettle.



STANDARD 100



## GERMAN WINTER HEMP

# HOW OUR HEMP IS GROWN

Our hemp is grown as a secondary crop between main crops. Apart from guaranteeing a high-quality fibre, this provides our farmers with additional income.

All of our winter hemp is grown in Germany, most of it within 100Km of our production facility.

Growing hemp has many benefits for the farmer and the environment.

It does not require pesticides, replenishes soil nutrients, improves composition and water management of the soil, sequesters CO<sub>2</sub>.

# WINTER HEMP

Our winter hemp is like a **SPA TREATMENT** for the soil between crops.



FROM FIELD TO FIBRE

## TRACEABILITY

„I KNOW ALL MY FARMERS BY FIRST NAME“

- Antonia, Chief of agriculture

Outstanding fibre quality begins on the field. In order to guarantee our high-quality standard, we have very specific requirements to the farming practices of our hemp. That is why we make contracts with our farmers on the one hand guaranteeing them an appropriate pay for their produce on the other hand binding them to follow our guidelines.

When the hemp is delivered to our facility in the form of straw bales, it is tested along a number of quality criteria. Bales are marked with the farmer's initials and processed together in batches allowing us to trace every lot of textile fibre back to its origin farm.

„BATCH NUMBERS START WITH THE FARMER'S INITIALS“

-Lars-Christian, Chief of production



FIBRE FOR OUR FUTURE

## SUSTAINABILITY

Hemp is likely the most sustainable textile material in the world.

Mother nature has blessed the hemp plant with the ability to grow in all climates, not to require pesticides, being very drought resistant, giving back nutrients to the soil and improving its quality.



Furthermore, hemp has a very high yield per hectare and fibre content. So: less use of farmland for more fibres. A humble yet generous plant.

As a replacement for cotton and synthetic fibres (also partially through blends) it therefore presents a unique solution to the industry's big problems: water consumption, pesticide use, microplastic, traceability, working conditions.



## NEW FACILITY

# INDUSTRIAL SCALE PRODUCTION

Founded in 2011, Felde Fibres has developed the proprietary production method to produce high-quality elementary fibres from Hemp, Linen, European Stinging Nettle and even more exotic plants like Ramie, Kenaf amm.

Currently still operating out of the R&D facility, we are now in the middle of constructing our new large scale production facility going into operation in 2024. Within short time we will reach a capacity of 5.000 tons of textile fibre per year.

The new facility will house all production steps from raw material to finished fibre under one roof giving us full control over traceability, quality and short lead times.

We are currently focusing on hemp fibres but will expand our production of European Stinging Nettle and Linen the coming years.

Already today, we hold stock on hand and offer short lead times.

**“WE ARE MULTI-PURPOSE.**

**AND WE ARE GOING BIG!”**

- Ulrik, Owner & CEO



## ABOUT US

# OUR PRODUCTION METHOD

With an innovative approach we have developed a very specific set-up of machines and apparatuses consisting of 2 processes.

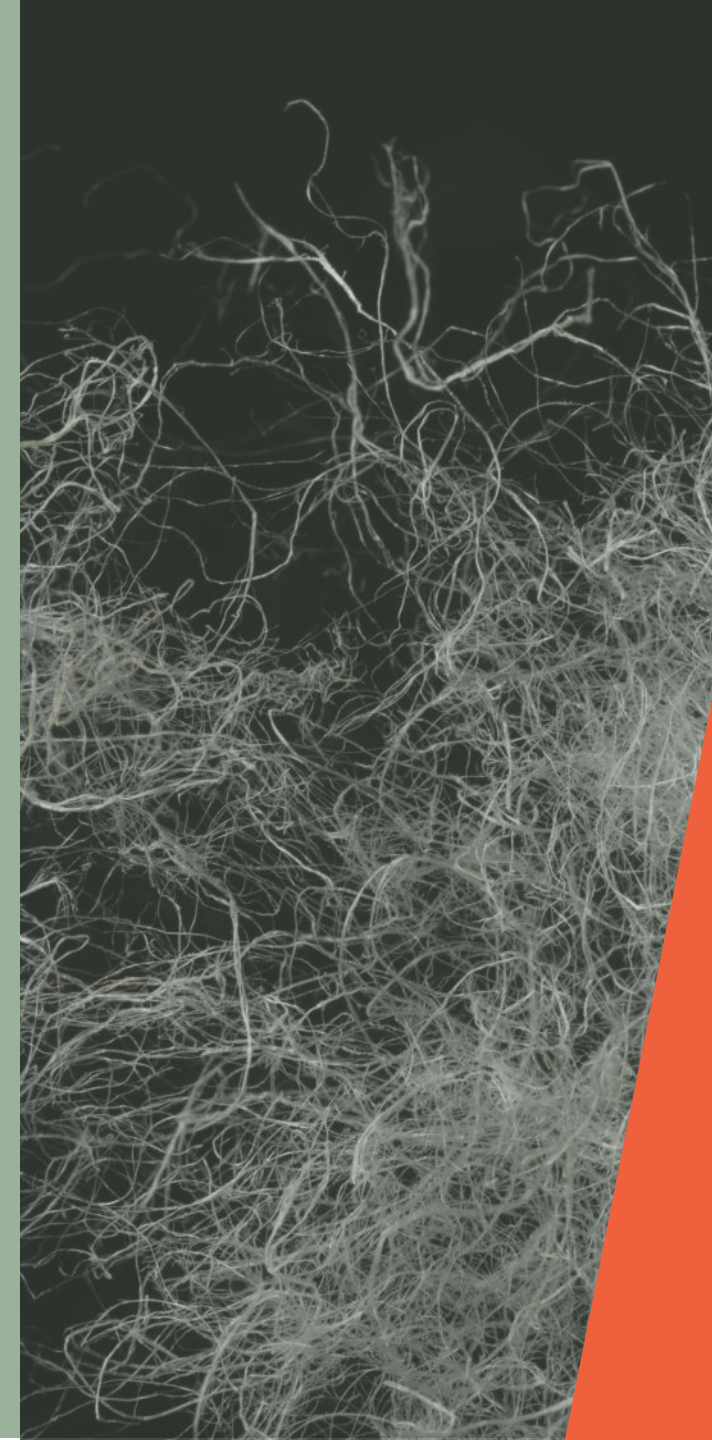
## MECHANICAL PROCESS

In the mechanical process the fibres are separated from the wooden plant material and combed in order to remove impurities and to achieve a primary fibre opening.

## WET PROCESS

In the wet process, the fibres are degummed with heat and mild agents (conforme with GOTS) gently removing remaining impurities and fully opening the fibres into elementary fibres.

With the ability to adjust for naturally occurring variations in the raw material and possessing a high throughput our quality has a high degree of conformity at a high quantity and attractive price.



YOUR ADVANTAGES PRODUCING WITH FELDE HEMP

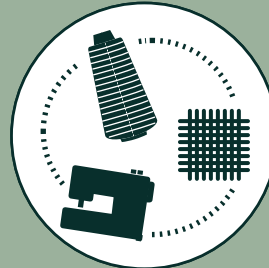
## BENEFITS FOR YOUR COMPANY



FINEST QUALITY  
OF HEMP FIBRES



THE WORLD'S MOST  
SUSTAINABLE  
TEXTILE



LARGE  
MANUFACTURER/  
SOURCING  
NETWORK



SHORT  
LEAD  
TIMES



GOTS AND OEKO-  
TEX® STANDARD  
100



VIRTUALLY ALL  
TEXTILES  
POSSIBLE



RELIABLE  
SUPPLY OF  
HIGH  
QUANTITIES



ATTRACTIVE  
PRICE



GROWN AND  
PRODUCED IN  
GERMANY



HOW TO GET IN TOUCH

## MEET OUR PROFESSIONALS



MARTINA FINKEN

Position: Key Account Manager

E-Mail: [mf@felde-fibres.com](mailto:mf@felde-fibres.com)



ULRIK SCHIØTZ

Position: CEO

E-Mail: [us@felde-fibres.com](mailto:us@felde-fibres.com)



NINA HEITMANN

Position: Sales & Marketing

E-Mail: [nh@felde-fibres.com](mailto:nh@felde-fibres.com)

WE'D LOVE TO HEAR FROM YOU!





FROM  
FIELD  
TO  
FIBRE