



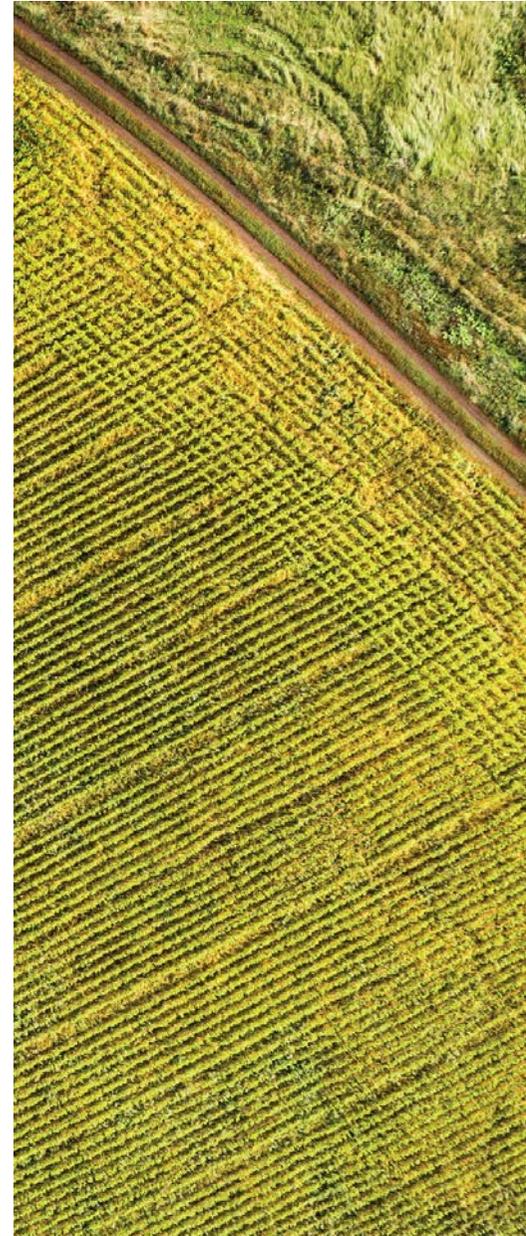
ECO QUALITY IN FASHION

Konoplex is Russian agro-industrial holding specializing in growing and processing of industrial hemp into products of the highest quality:

- hemp fiber and shives
- hemp seeds and hempseed oil

We grow hemp of the best Russian varieties, certified and proved for low THC content.

The company is the leader in hemp production in Russia with over **3000 ha** of hemp in 2018.



Nowadays the Konoplex group includes several companies with different business functions and locations.

## Konoplex Moscow

Maintains coordination, strategic development and sales



LLC  
"Konoplex Penza"

The land owner and producer of hemp straw and fiber

LLC  
"Konoplex Agro"

Production of certified seeds for market sale

LLC  
"Konoplex Food"

Food production (oil, dehulled seeds and other)

LLC  
"Konoplex Prom"

Production of non-food products (fiber, nonwoven materials, pellets)



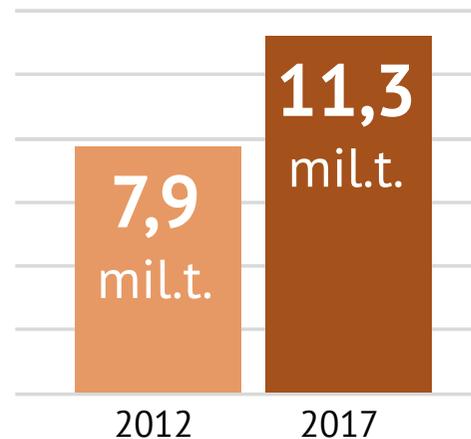


Production of nonwovens is developing rapidly all over the world, including Russia, due to:

- Low labor costs (5-7 times lower than for the production of textile materials)
- Cheaper raw material
- Cheaper equipment than in textile

Nonwovens are gradually becoming the material of the future, designed without loss of comfort and fashion to replace more offensive to nature processes of manufacturing fabrics and other textile products.

### World consumption of nonwoven materials



The global demand for nonwovens is increasing by 5.3% annually and will reach 9.8 million tons in 2018.





The production of technical textiles and nonwoven materials is one of the challenging areas, which the Ministry of Industry and Trade of the Russian Federation strongly promotes because of poor perspectives of cotton supplies for traditional textiles.

The drastic decrease of cotton fiber supplies from 100.000 tons in 2014 to 60.000 tons in 2015 draw the attention of textile manufacturers back to traditional in Russia linen and hemp. These also stimulated 12% growth of nonwovens sales in Russia in 2017.

Production of nonwoven textile insulation shows a high positive dynamics, both investment and production volumes. The estimated volume of the market is over **100 million Euro**.

Russian Research Institute of Nonwovens estimates significant demand for natural nonwovens as lining in outerwear, reaching **3-5 million m<sup>2</sup> in 2018**.

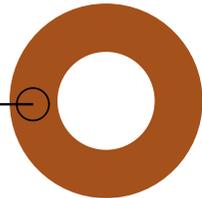


New Konoplex textile lining material is based on hemp fiber and competes with the most common materials used as insulating lining fabrics. This is a great alternative to natural down, fur and synthetic insulation in clothing.



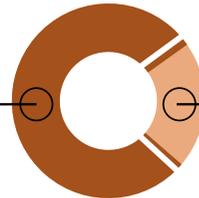
Material for insulation/lining

100%  
pure hemp



Thinner fabrics

80%  
hemp



20%  
polyester



Konoplex is 100% pure hemp material,  
which can be used for production:



### OUTERWEAR

As a natural insulation  
or lining materials for  
outerwear



### BEDDING

As a filler for bedding:  
pillows, blankets and  
mattresses



### FURNITURE

As a base for  
upholstery: keeps the  
shape and softness



The main purpose of the 80/20 hemp material is to be used in the footwear industry:

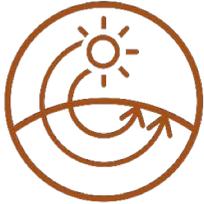


Properties of natural and chemical components in combination of 80% hemp with 20% polyester complement each other, making possible to obtain the very wide diversity of products:

- moisture resistant
- keep warm
- comfortable to wear
- hypoallergenic
- does not absorb odors



## Provides comfort in any circumstances:



### FLEXIBILITY

Comfortable wearing with no harshness, no rigidity



### DURABILITY

High wear resistance due to durability of hemp fibers



### SAFETY

Low allergic status. Safe for use in children clothes manufacturing



### POROSITY

Provides good breathability of fabric without losing warmth due to the high porosity of the material



### MICROBIOLOGICAL STATUS

Absorbs moisture, but prevents odors and development of microbes



### THERMO REGULATION

Microfibers grant maximum thermal protection

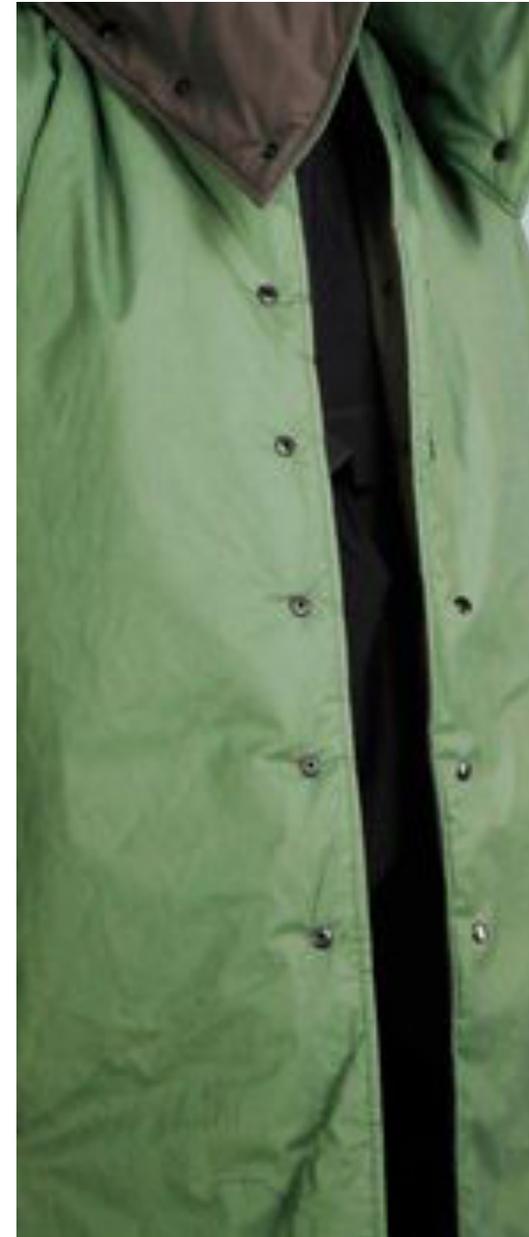


### NATURE-FRIENDLY

Bleached without chlorines. Organic management of farming

### RECOMMENDATIONS FOR CARE:

To maintain the properties and appearance of products, you must follow the recommendations of clothing manufacturers. For products with Konoplex® insulation, only dry cleaning.





Konoplex<sup>®</sup>

Thank you

LLC "Konoplex"

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