

HEMP FIBER

**R&D and P&D
studies focused on
sustainable product
development...**



ABOUT US

Sustainable and environmentally friendly production processes...

Founded in 1996 in Kahramanmaraş, our company; It is an innovative textile company with Open-End, Ring Spinning and Fold Twisting technologies.

Our Open-End facility has a production capacity of 15,000 tons/year with 5,200+ rotors, our Ring facility has a production capacity of 6,000 tons/year with 20,000+ spindles, and our Folding and Twisting Facility has a production capacity of 2,000 tons/year with 3,000 spindles. In our Ring, Open-End and Fold Twisting facilities; compact, siro, slub and lycra yarns are produced.

Our company is the only yarn producer with the R&D Center license issued by the Ministry of Industry and Technology. Our R&D Center; innovative machine design, correction of production errors, sustainable and environmentally friendly raw material studies, improving the performance of yarns in weaving and knitting machines, etc. produces innovative solutions in such matters.

In all of our activities, we adopt as a principle to continuously improve our energy performance and to make it environmentally and economically sustainable. In this context, we have completed the installation of the "Solar Energy System" on the roofs of our Open-End and Ring Facilities, which will meet 50% of our energy consumption. Because we see sustainability as a responsibility, not a trend issue.



KARACASU TEKSTİL & HEMP FIBER

As a result of our R&D Center studies with hemp fiber, within the scope of "1501 - TÜBİTAK Industry R&D Projects Support Program", the theme of "Development of Multifunctional Yarns for Sustainable Environmentally Friendly Hemp Fiber and Antibacterial, High Strength and Abrasion Resistant Antibacterial Bed Sheets and Upholstery Fabrics" We have successfully completed the project.

In addition, we started the production of Swan Mask, which consists of Hemp fiber, Naia™ and Lyocell materials, which are in the sustainable product category for which we applied for a patent in 2019. We are working to make sustainable life more accessible with the projects we do with hemp fiber and run by our R&D Center.

WHEN MIXED WITH MATERIALS SUCH AS COTTON, LINEN AND SILK, HEMP FIBER BECOMES A STRONGER, LONGER-LASTING PRODUCT WHILE MAINTAINING ITS QUALITY AND SOFTNESS.

PRESENTATION

Production infrastructure focused on efficiency and energy saving...

Cannabis is an annual woody plant belonging to the family Cannabinaceae, close to the nettles. This plant, whose homeland is Asia, has spread all over the world by following various paths.

Hemp fibers have had a very important place in textile production throughout history and have shaped the national economies. Compared to cotton, the most widely used natural fiber in the world, and petroleum-derived synthetic fibers, hemp fibers draw attention with their superior ecological properties and organic textile production potential. The fact that the hemp fiber molecule contains hydrophilic groups provides properties such as moisture adsorption, gas permeability and thermal conductivity performance. Hemp

fiber has good physical properties such as moisture permeability, breathability, but also has special functions such as heat preservation, anti-ultraviolet and antistatic. The hemp fiber is hollow, has a large lumen, and accounts for approximately 1/2-1/3 of the total cross-sectional area, and is larger than ramie, flax and cotton.

Since there are many hydrophilic molecules that can easily combine water molecules, hemp fiber has a good moisture absorption feature with its moisture value. In addition, it has an air-gapped structure, which can effectively prevent the formation of anaerobic bacteria.



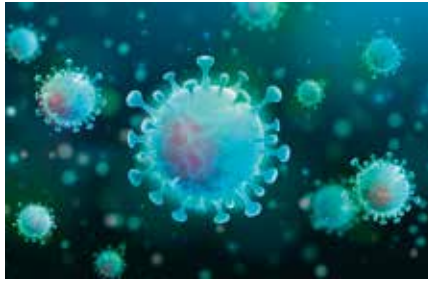
FEATURES

It shows antibacterial activity against bacteria...



SOFT AND DURABLE

Like cotton, Hemp fiber can be mixed with high quality fibers. When mixed with materials such as cotton, linen and silk, it preserves its quality and softness, while it becomes a stronger and longer-lasting product compared to cotton.



ANTIBACTERIAL

Hemp fiber has high UV resistance and effective results against E. Coli, C. Albicans and S. Aureus bacteria have shown that the targeted antibacterial activity of hemp fiber can be achieved in mass use areas, especially in the medical sector.



LESS FEATHERING

Thanks to the Naia™ fiber contained in the hemp fiber blended yarns, pilling, hair formation and wear do not occur even after continuous use and repeated washings. This feature provides higher consumer satisfaction by preserving the comfort and aesthetics of the clothes.



IT IS SUSTAINABLE

Cannabis is a highly renewable and fast growing plant. Hemp can be grown and harvested using much less water while producing more fiber per acre than cotton in the same amount of soil. These features make it a sustainable product.



BLENDING OPTIONS

Versatile blending options offer manufacturers alternatives...

As Karacasu Tekstil, Ne: 3/1-28/1 scale;
We also produce yarns with other fibers
such as Recycled Polyester, Lyocell,
Modal, Viscose, Cotton, Hemp and Linen
or in special compositions in line with

the requests of our customers. At the
same time, we can make multiple layers
of these yarns in the folding/twisting
machines of these blends.

KNITTING INDUSTRY

In Yarns Between Ne: 20/1-28/1

Hemp/Cotton	15%-20%	Hemp/Cotton	85%-80%
Hemp/Lyocell	15%-20%	Hemp/Lyocell	85%-80%
Hemp/Recycled Polyester	15%-20%	Hemp/Recycled Polyester	85%-80%
Hemp/Viscose	15%-30%	Hemp/Viscose	85%-70%

WEAVING INDUSTRY

In Yarns Between Ne: 6/1-16/1

Hemp/Cotton	15%-50%	Hemp/Cotton	85%-50%
Hemp/Lyocell	15%-50%	Hemp/Lyocell	85%-50%
Hemp/Recycled Polyester	15%-20%	Hemp/Recycled Polyester	85%-80%
Hemp/Viscose	15%-30%	Hemp/Viscose	85%-70%

In Yarns Between Ne: 20/1-24/1

Hemp/Cotton	15%-30%	Hemp/Cotton	85%-50%
Hemp/Lyocell	15%-30%	Hemp/Lyocell	85%-50%
Hemp/Recycled Polyester	15%-30%	Hemp/Recycled Polyester	85%-70%
Hemp/Viscose	15%-30%	Hemp/Viscose	85%-70%

PARTNERSHIPS

We offer the best
sustainable choices for
the fashion industry...



SEAQUAL
INITIATIVE

POLYLANA®



Agraloop™

CONTACT

Continuing our tradition
of results-oriented,
strong performance...

KAHRAMANMARAŞ

Karacasu Ferihs Mah. Havaalanı Cad.
No: 36/A, 46080 Dulkadiroğlu,
Kahramanmaraş - Türkiye
T +90 344 251 28 85
F +90 344 251 28 88
E info@karacasutekstil.com.tr

İSTANBUL

Yeşilköy Mah. Atatürk Cad. İDTM İş Blokları
B Blok No: 10/2 Ofis No: 315, 34149
Bakırköy, İstanbul - Türkiye
T +90 212 465 37 00
F +90 212 465 37 05
E info@karacasutekstil.com.tr

BURSA

Alaaddin Bey Mah. 632. Sok. No: 6/A Ofis
No: 5, 16120 Nilüfer, Bursa - Türkiye
T +90 546 651 24 48
E info@karacasutekstil.com.tr

DENİZLİ

Saraylar Mah. 464. Sok. Durmuş Çoban İş
Merkezi No: 1 D: 15, 20010 Merkezefendi,
Denizli - Türkiye
T +90 532 054 45 88
E info@karacasutekstil.com.tr



Karacasu Tekstil Tic. ve San. A.Ş.

Karacasu Feriþ Mh. Havaalanı Cd. No: 36/A
46080 Dulkadirođlu, Kahramanmaraş - Türkiye

T +90 344 251 28 85

F +90 344 251 28 88

E info@karacasutekstil.com.tr

www.karacasutekstil.com

