

LINEN YARN COLLECTION

Innovative and low environmental impact natural fiber



ABOUT US

Future-conscious and sustainable production processes

As Karacasu Tekstil, we prioritize sustainability by combining modern and innovative yarn production using Open-End, Ring Spinning, and Twisting technologies with environmentally friendly production processes.

Strong production capacity

Our Open-End facility operates with over 5,200 rotors, producing 15,000 tons of yarn annually. In our Ring Spinning facility, we utilize more than 20,000 spindles to produce 6,000 tons of yarn each year. Additionally, our Twisting facility, equipped with 3,000 spindles, achieves an annual production capacity of 2,000 tons. We offer tailored solutions to meet diverse needs, producing compact, siro, slub, and lycra yarns.

Sustainable partnerships

We lead in sustainable yarn production by collaborating with globally recognized brands such as TENCEL™, LENZING™ ECOVERO™, Naia™, Circulose®, Seaqual Initiative, and Polylana®. These partnerships guide our efforts toward a greener planet.

Efficient R&D center activities

As a licensed R&D center certified by the Ministry of Industry and Technology, we conduct research on innovative machine design, production error rectification, development of sustainable raw materials, and improving yarn performance.

Environmentally respectful approach

We adopt energy efficiency and sustainability as core principles. By installing solar panels on the roofs of our Open-End and Ring Spinning facilities,



**WE ARE TAKING
SIGNIFICANT STEPS
IN DEVELOPING
SUSTAINABLE PRODUCTS
THROUGH PARTNERSHIP
AGREEMENTS WITH
GLOBAL COMPANIES.**

we meet 50% of our energy consumption needs through renewable energy sources.

Strong human resources

At Karacasu Tekstil, we prioritize the continuous development and motivation of our workforce. We create a supportive environment by offering regular training programs, talent management initiatives, and fostering teamwork across all departments, from production to R&D.

Functional and diverse product portfolio

Our portfolio includes over 38 types of fibers (natural, cellulosic, synthetic, animal-based, recycled, etc.), enabling us to produce customized blended yarns tailored to our customers' needs. Additionally, we offer multi-ply versions of these blended yarns through our Twisting facilities.

LINEN YARN COLLECTION

Sustainability and efficiency-focused production processes

**BY COMBINING INNOVATIVE
TECHNOLOGIES
WITH SUSTAINABLE
PRODUCTION METHODS,
WE PRODUCE BOTH ECO-
FRIENDLY AND HIGH-
PERFORMANCE YARNS.**

Raw material selection

The flax fiber production process begins with the careful selection of flax plants that require significantly less water consumption compared to traditional agriculture. Flax is a plant that grows easily in cooler climates and minimizes the need for chemical fertilizers. Flax plants grown using certified and organic farming methods reduce our environmental footprint as a sustainable fiber source.

Fiber preparation

The fibers of the flax plant are obtained through the challenging but natural process known as "retting." In this process, natural microorganisms are used to separate the fibers from the plant's stem. Then, special methods are applied to soften the fibers and enhance their shine. This process reduces the natural stiffness of flax, making it suitable for yarn production.

R&D Center activities

As a company with an R&D Center license granted by the Ministry of Industry and Technology, we are working to enhance the potential of flax fiber:

- We are developing new blending techniques to enhance the natural flexibility and durability of the fiber.
- By improving the breathability and moisture absorption properties of flax yarns, we provide tailored solutions for the textile industry.
- Using eco-friendly production methods, we reduce energy consumption and waste.

Blending and mixing

Flax fiber is blended with other materials such as cotton, wool, TENCEL™ Lyocell, and recycled polyester to meet both performance and aesthetic needs. This blending process is optimized to create lightweight, breathable, and durable yarns. Each blend is carefully designed according to the customer's needs.

Yarn spinning

Our Open-End and Ring Spinning technologies enable the conversion of flax-blended fibers into high-quality yarns. The spinning process preserves the natural structure of the flax fibers, ensuring the yarn's smoothness, durability, and softness.

Quality control

Flax-blended yarns undergo comprehensive testing for performance criteria such as moisture management, breathability, and durability. Each product undergoes quality control processes in accordance with international textile standards, ensuring both durability and aesthetic properties.

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Softer and more durable textile products



Durable and long-lasting

Linen fiber offers a durable and long-lasting structure thanks to its high tensile strength. This property ensures that yarns exhibit less wear, deformation, and deterioration, making it an ideal choice for textile products exposed to heavy use, challenging conditions, and prolonged usage.



Lightweight and comfortable

The lightweight nature of flax fiber allows blended yarns to provide comfortable wear in garments and textile products. Its fine yarn structure not only gives the products an elegant appearance but also ensures ease of use. Flax stands out as an ideal material, especially for summer clothing.

Breathable

Flax-blended yarns naturally have a breathable structure. The gaps within the fibers allow moisture to be quickly absorbed and evaporated. With this property, flax yarns make an excellent choice for comfortable clothing and textile products in hot weather conditions.



Sustainable

Flax is a naturally renewable and eco-friendly resource. It requires less water, energy, and pesticides compared to cotton and helps improve soil quality. With this characteristic, it contributes to sustainable textile production by reducing environmental impact and resource consumption.



High color retention

Flax-blended yarns absorb colors deeply during dyeing and retain their vibrancy for a long time. With this property, it ensures that the aesthetic appearance of the products is maintained even after washing and daily use. It is an ideal solution, especially for design-focused textile products.



Versatile use

Flax fiber can easily be blended with materials such as cotton, polyester, TENCEL™ Lyocell, and viscose. This property allows the yarns to acquire different textures and performance benefits. It offers a range of applications in fashion, home textiles, activewear, and industrial textile products.

LINEN YARN COLLECTION

**WITH OUR CUSTOMER-
FOCUSED AND FLEXIBLE
PRODUCTION APPROACH,
WE OFFER TAILORED
SOLUTIONS FOR EVERY
INDUSTRY USING MORE
THAN 38 TYPES OF
FIBERS.**

BLENDING OPTIONS

We produce tailor-made yarns by blending linen fiber with fibers such as Cotton, TENCEL™ Lyocell, Recycled Polyester, and Viscose, according to our customers' requirements. Additionally, we can produce multi-ply versions of these blended yarns in our Twisting facilities.

We produce our flax fiber blended yarns within the following ranges for various sectors:

- Knitting sector: Ne 4/1–28/1
- Weaving sector: Ne 3/1–24/1

**CONTACT**

A management
approach investing in
its region and country

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