
SUSTAINABLE
COLLECTION
Let's change
THE WAY
WE PRODUCE
We are making the shift to a
completely ethical process,
check out our technologies.
Tavex

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SUSTAINABILITY IS PART OF TAVEX DNA

A sustainable product satisfies the needs of the present without affecting the conditions for future generations.
Tavex has developed and implemented several sustainable technologies to preserve the natural resources essential for life. We are continuously innovating to offer solutions to the market and reinventing processes to add value to our products.

FRIENDLY COTTON INITIATIVE (FCI)

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Tavex has constantly worked to ensure that every stage of the denim production process becomes sustainable, from cotton which is the most used textile fiber in the world. Tavex has the certification US Cotton Trust Protocol (USCTP) that warantees the best cotton grown practices. We are also member partners of Cotton LEADS. We utilize post industrial recycled cotton in our fabrics. 100% of our cotton is procured in USA. All these actions are to reduce the environmental impact of the production of cotton..

We're turning the future of the industry into Ethical Fashion by reducing our global impact and the way we interact with nature.

- The Better Cotton Initiative (BCI) is the largest cotton sustainability program in the world.
- This initiative provides training on more sustainable farming practices to more than two million cotton farmers in 21 countries.
- By 2020, BCI will represent 30% of global cotton production.
- The Cotton LEADS SM program was jointly initiated by the cotton industries of Australia and the United States.
- The cotton producers and the industrial organizations of both countries promoted the investments, practices and national infrastructures necessary to channel cotton production towards continuous and sustainable improvement.

WATER CONSERVATION TECH (WCT)

By reducing the need of groundwater, we help to maintain our aquifers.
We have several ways to achieve this: Tavex has created an innovative dyeing process to reduce the amount of rinse water compared to the conventional production by up to 85%.
On the other hand, with our wastewater treatment plant, water can be recycled and return to our production process once the contaminants components have been removed, in several stages such as washing, dyeing or heat treatments.
We are also recovering rainwater; the downpours of rainwater are connected to a collector that goes to a tank with capacity of 1,200 m3.

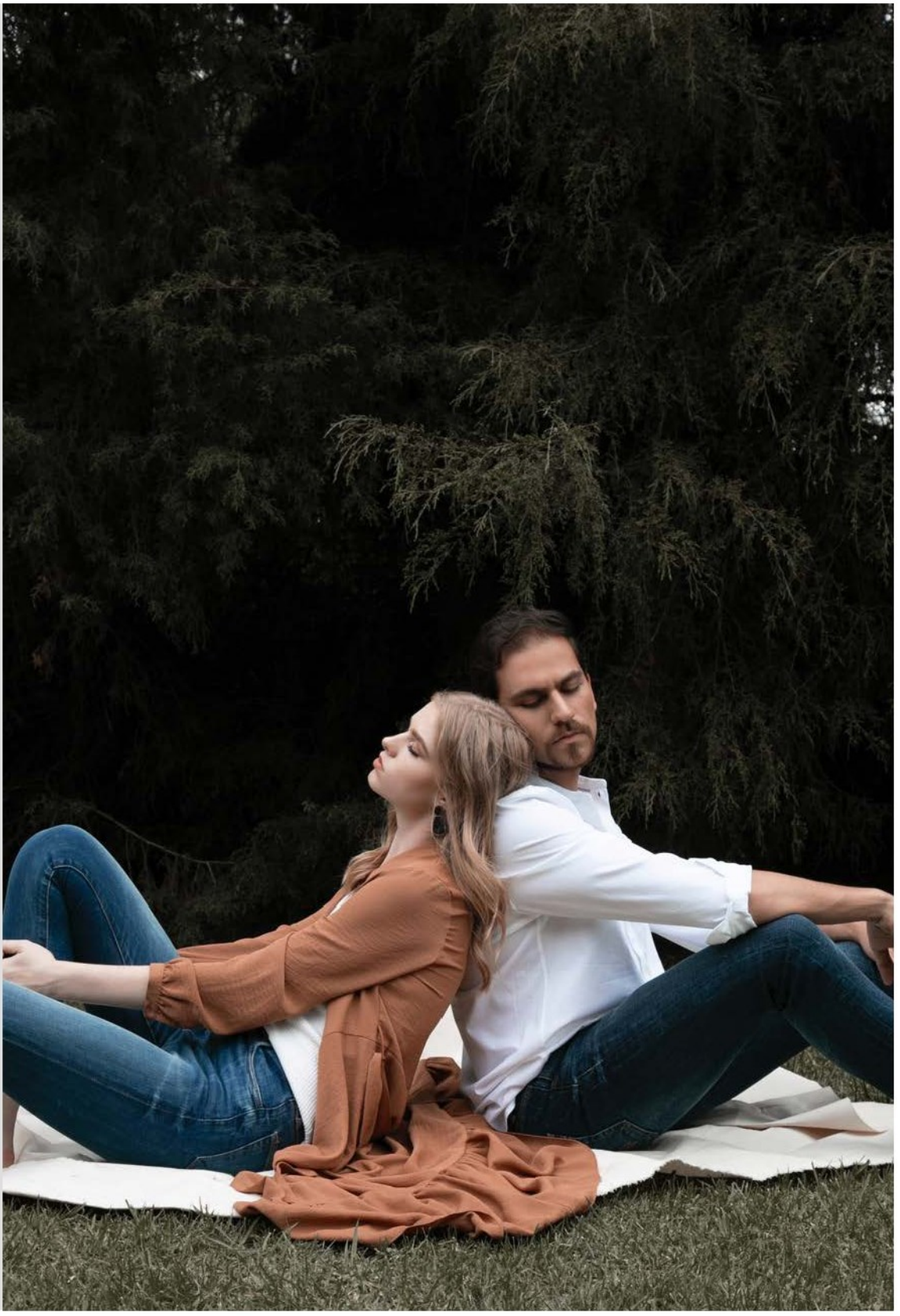
- Water is essential for life. No living being on earth can survive without water. Water is essential for human health as well as for the preservation of the environment.

- According to press reports, 10 thousand liters of water are required to make a pair of denim jeans, considering the production of raw materials to dyeing and final finishing.

- A study made by United Nations, published in April 2018, declares the textile industry as the second largest consumer of water in the world.

- In 2025, 1.8 billion people will live in countries or regions with absolute water shortages and two thirds of the world's population could do so under conditions of water stress.

Over 700 gallons of water are polluted yearly by the textile industries. *We are changing our part.*



CLEAN INDIGO TECH (CIT)

Now 5 years with this initiative, with which we have managed to reduce the consumption of indigo reducers (caustic soda and sodium hydrosulphite), sending less chemicals to the wastewater treatment plant, improving the quality of wastewater, and reducing the amount of sludge. Likewise, the work environment is cleaner in the productive areas through the removal of indigo powder. This liquid indigo is the most sustainable in the world and has obtained several certifications such as Bluesign®, Cradle to Cradle, Global Organic Textile Standard (GOTS) and GreenScreen®.

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“Once people become knowledgeable and passionate about ecological issues and see how their day to day actions impact their future, they don’t go back.”

- Saloni -

Since this is a liquid indigo, the productive areas are cleaner and we provide employees work enviroment with less pollution.

Other advantages are:
–Easy handling.
–Process consistency.
–Less deviation of the shade against the standard.
–Decrease of the number of shade groups.

LASER SENSITIVE DENIM (LSD)

Special treatment of the yarn at the time of dyeing, which is much more sensitive to laser and that is focused on achieving higher contrasts than with the traditional dyeing process, positively impacting garment and laundry plants, where the processes of hand sand and local potassium can be eliminated, achieving shorter processes, water consumption reduction, and a healthier work environment.

Using LSD Fabrics:

- No PP
- Reduction of bleach
- No phenols
- No detox chemicals
- No sprayed chemicals
- No manual handsanding

“If you are planning for one year,
grow rice;

If you are planning for ten years,
grow trees;

If you are planning for 100 years,
educate a child;

If you are planning for 1000 years,
then protect the environment.”

- Confucius -

ECO FINISH TECH (EFT)

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This is another way we reduce the need of water in our process. With this technology, we achieve a reduction of at least 95% of water consumption compared to the conventional finishing process. With this process, the residual water is minimal, so we also improve the quality of treated wastewater. This process also helps to reduce the use of fuels by 40%, thus reducing emissions into the atmosphere.

“Good design in sustainable design.”

-Imrad Amed

GREEN ENERGY TECH (GET)

The proper use of science is not conquer nature, just to live in it. A part of the factory is powered by Green Energy Technology. Wind energy is an abundant, renewable and clean resource that helps to reduce gas emissions. Wind is actually a form of solar energy, since it is caused by the heating of the atmosphere by the sun. For as long as the sun shines and the wind blows, the energy produced can be harnessed to send power across the grid.

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Wind power is cost-effective. It is one of the lowest-priced energy sources available today. Wind energy mitigates the price uncertainty that fuel costs add to traditional sources of energy.

It occupies little space. To produce and accumulate the same amount of electrical energy, a wind field needs less land than an energy field.

Wind creates jobs. According to the Wind Vision Report, wind has the potential to support more than 600,000 jobs in manufacturing, installation, maintenance and supporting services by 2050.

Wind turbines can be built on existing farms or ranches. This greatly benefits the economy in rural areas, where most of the best wind sites are found. Farmers and ranchers can continue working the land because the wind turbines use only a fraction of the land, providing landowners with additional income.

ORGANIC SIZING INITIATIVE (OSI)

Sizing process increases the resistance of warp yarns and reduces yarn hairiness. The objective is to protect the warp from the tensile, bending and abrasion forces that it suffers on the loom, to minimize its breaks, which cause production losses and low quality of the warp yarns. 100% of our fabrics use Organic Sizing and no synthetic chemicals. A chemical compound is replaced by potato or corn starch. Organic Sizing is more easily removed after weaving than synthetic sizing.

- About 40-50% of wastewater released from textile plants is related to desizing.
- Desizing is released as effluent and causes environmental problems, especially when non-biodegradable sizes such as PVA are used. PVA is reported to remain in water for up to 900 days.
- Though PVA is not toxic, it has a great surface activity and can form large amounts of foam in the water, which affect the oxygen content in water body, thereby inhibit or even undermine the respiratory activity of aquatic organisms.
- Our Organic Sizing Initiative is mainly based on providing superior sizing properties and at the same time a biodegradable alternative.

PRESERVING OCEANS INITIATIVE (POI)

The oceans have a fundamental role in the water cycle, in the chemical composition of the atmosphere, and in the moderation of the climate. According to "Science" magazine, 8 million tons of plastic bottles go to the oceans per year. By 2050, there will be more plastic waste than fish in the sea. Tavex joins the cause of recycling plastic bottles with the use of REPREVE® fiber. Whit its use, we help to recycle more than 14 billion plastic bottles in a year and it is targeted 20 billion bottles recycled by 2020 and 30 billion bottles by 2022. REPREVE® transforms recycled bottles into an amazing fiber!

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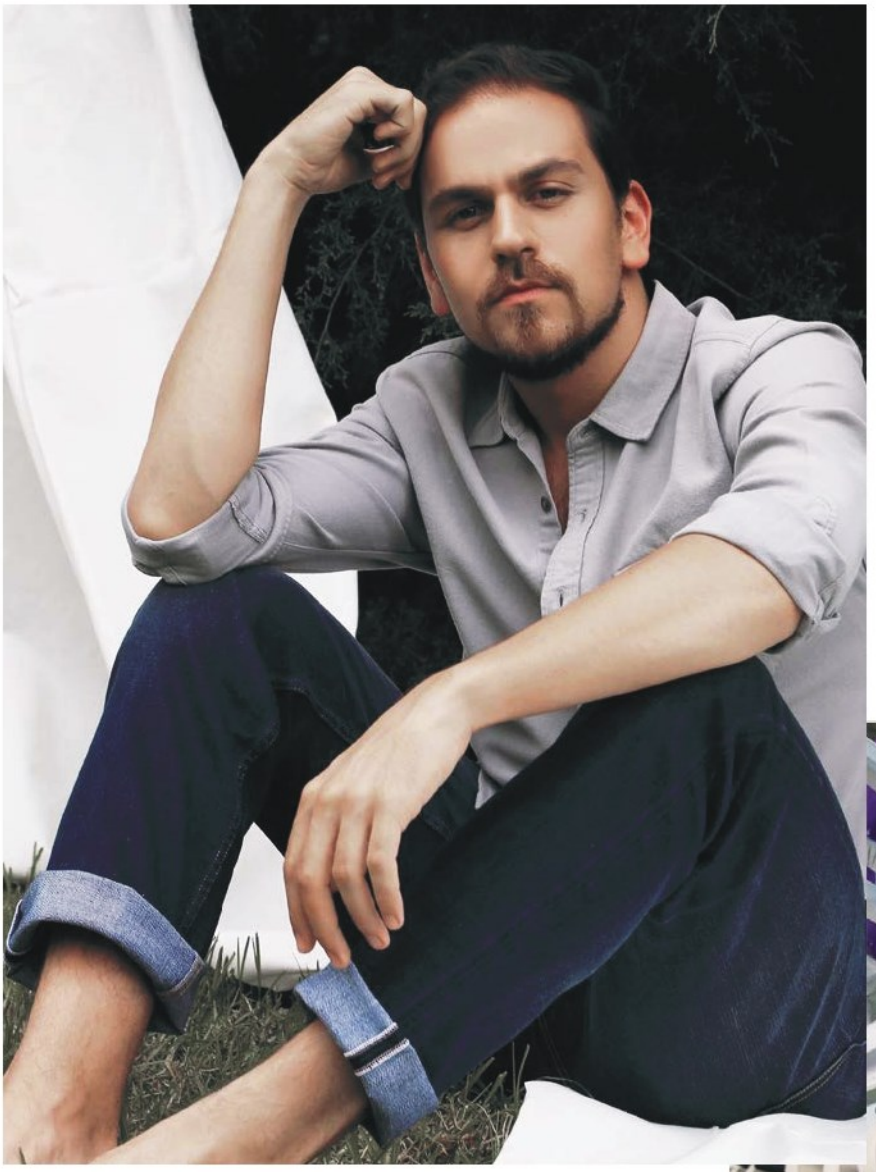

- Plastic is one of the most polluting materials for the ocean. It is a material that can take up to 1,000 years to biodegrade.

- A large part of plastic waste is sunk at the bottom of the sea, another part is floating and others are fragmented into small parts, producing what is called microplastics.

- The amount of microplastics in the ocean is extremely difficult to quantify. They are tiny, very difficult to eliminate and become part of marine trophic networks when ingested by marine life.

- Plastic bottles in the ocean end up forming real islands of garbage. Of the five gigantic plates, there is one in the North Pacific known as "the 6th continent". This island of plastic bottles has an area of about 1,400,000 km2, almost three times the area of Spain.

COTTON LESS DENIM (CLD)

Tavex has launched a collection of Cotton Less Denim! It is achieved with the use of Tencel® fiber instead of the traditional cotton blend.
Like cotton, Tencel® is made from plant materials. However its manufacturing requires less energy and water than cotton. As a naturally derived fiber, Tencel® is also biodegradable. In addition, Lenzing sources its wood from certified and controlled suppliers to guarantee the sustainable managed plantations.

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“The greatest threat to our planet is the belief that someone else will change it.”

- Robert Swan -

Tencel® has incredible absorption charecteristics and is 50% more absorbent than cotton. Because they are more breathable and less susceptible to odorous bacteria growth.

Although it is mixed with conventional dyes, which can be harmful to the environment, Tencel® Tencel® requires a lot less dye than cotton.

As is the case with most textiles, the solvents used to turn the wood pulp into fiber are made using petrochemicals. However the closed loop production process means that the solvent is recycled time and time again to produce new fibers and minimize harmful waste.

OEKO-TEX CERTIFICATION (OTC)

Tavex is proud to announce its certification Standard 100 by OEKO-TEX®. It is an independent certification system for textiles from all stages of production that have been tested for harmful substances. The certificate is awarded when all elements of an item fulfil the necessary requirements, which are updated annually. This standard is concerned with the effects of textiles and chemicals contained in them of the health and well being of the consumer.

TEST CRITERIA:

- Legally banned and controlled substances: azo dyes, carcinogenic dyes, pentachlorophenol, phthalates, PFOS and PFOA, heavy metals.

- Substances which may be harmful to health: allergy-inducing dispersion dyes, pesticides, tin-organic compounds (TBT, DBT, TPhT, DOT) polycyclic aromatic hydrocarbons (PAH).

- Parameters for maintaining good health: an acceptable pH value, low emission of volatile components.

- Biologically active and flame-retardant substances: are only accepted after further evaluation by a committee of independent experts.

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