argar srl Technology

SAFETY AND COMFORT

The right choice

KNITTED PROTECTIVE FABRICS



argartechnology.com





WHATEVER JOB YOU DO

AND WHICHEVER IT IS YOUR JOB ROLE,

YOU ARE ALWAYS THE CORE FOR US.

Argar is one of the main european manufacturers of certified knitted fabrics earmarked for the production of personal protective clothing, intended for the professional (PPE), technical and sport use.

Argar's fabrics combine fireproof features, antistatic and antibacterial properties, as well as high-visibility and protection from the electric arc. They are available in a wide variety of braiding patterns, each one with related textile accessories.




POLYFIN



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Satisfaction, safety, comfort.

Core Business

Argar's Quality Policy aims at achieving the customer's satisfaction in its wider meaning, supplying a product which complies with the expectations of a more and more demanding market, with a strong will to make **Argar** recognised as a reliable partner.

The understanding of the context in which the company operates - with close attention to changes and trends, as well as through an accurate analysis of the requirements of the parties involved - allows the development of a customer-oriented corporate culture that is focused on a continuous and progressive improvement.

The introduction of the risk based thinking, according to ISO 9001:2015, highlighted the causes of possible deviations in the processes and, consequently, in the quality. This has been a turning point in putting in place specific actions in order to minimise these risks and their negative effects. At the same time, it let opportunities of improvement arise.

Argar operates with the following goals::

- to assure a high-standard quality, guaranteeing a continuous control and the maintenance of the compliance with the requirements;
- to improve customers' confidence in the company and his satisfaction;
- to involve and motivate both the internal personnel and the suppliers;
- to keep a prevention and improvement system in order to achieve better performances of the already existing products, as well as to develop new fabrics to meet the market's demand.

We give new business opportunities to our clients.



Development of fabrics based on your needs

In addition to the wide range of available fabrics, **Argar** develops new ones consistent with qualitative and technical requests of the customer.

Customized colors

Argar offers the possibility to realise extremely low minimum dyeing batches in any color, either from the samples and from the Pantone® folders, perfectly recreating the required color.

Low minimum dyeing batches

Argar is able to keep the quality of the fabric and the reproducibility of the color in spite of the minimum quantities of dyeing batches.

Technology and expertise for protective fabrics of excellence

Laboratory

Technology and expertise for protective fabrics of Made in Italy excellence

Argar Technology is the R&D unit, created to study and to realize innovative products, whose implementations regard both their features and the range of choice, with the objective of satisfying the market's demand and assuring high-standard quality along the entire productive process, which is located in the national territory.



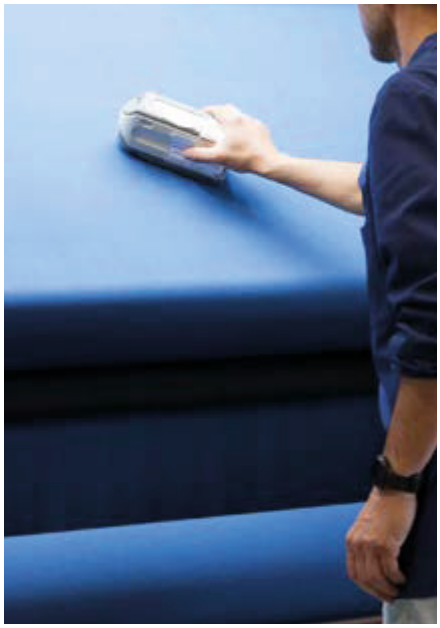
Quality control

Safety and comfort guaranteed from Argar's knitted protective fabrics

All **Argar** fabrics are verified after every production phase.

The final quality control provides for a systematic check of the entirety of the production.

All knitted fabrics and textile accessories are manufactured and ennobled in Italy.



Certifications

We firmly believe in the value of an incessant update of both our competences and our instruments.

Argar obtained ISO 9001 certification, moreover it adheres to the voluntary Traceability System TF - Traceability & Fashion which allows the final consumer to verify the provenance of raw materials, as well as the supply chain.

All knitted fabrics and textile accessories produced by **Argar** are certified Oeko-Tex® Standard 100 Classe II.

Our certifications:

- **EN ISO 11612/14116 Flame Retardant**
- **EN ISO 20471 High Visibility**
- **EN 1149 Antistatic**
- **EN 61482 Arc Flash**
- **GO/RT 3279**
- **EN ISO 15797 Industrial Washing**
- **EN ISO 11611 Welding**
- **EN 61340 ESD**
- **EN 20743/20645 Antibacterial**
- **AS/NZ 4399 UV Protection**

The company is certified **ISO 9001** (Bureau Veritas) and **OEKO-TEX® Standard 100 Classe II**, which pledge the quality of our products.



Safety and Comfort guaranteed by Argar's protective knitted fabrics





Application Areas

Application Areas

Protective knitted fabrics

Fireproof fabrics

Hydrocarbon, Oil and Gas, Fuel Refinery, Fire Departments, Explosive Substances and Powders Industry, Chemical.



High-visibility fabrics

Airport Operators, Flight Control, Aircraft Maintenance, Airline Crews, Aeronautic Industry, Railways,Road Maintenance.



Welding fabrics

Automotive Industry, Manufacturing Industry, Metallurgic Industry.



Industrial Washings fabrics

Industrial Laundries and Clothes Renting Companies.



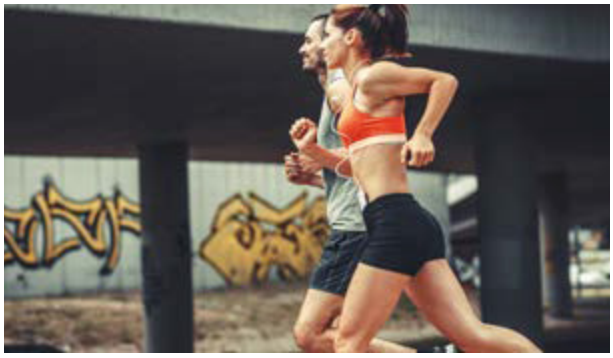
Antistatic fabrics

Oil and Gas, Fuel Refinery, Fuel Pumps, Explosive Substances and Powders Industry, Chemical, Electronic Components and Devices Industry, Environments where Protection against Electromagnetic and Radiofrequency pollution is essential.



Antibacterial fabrics

For any sectors for the prevention of unpleasant odours thanks to the breathability and the comfort.



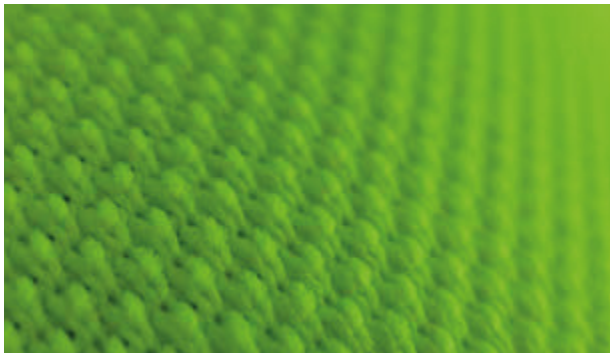
Cleanroom fabrics

Packaging, Logistic, Electronic, Optoeletronic, Food and Beverage, Spray a paint (Automotive).

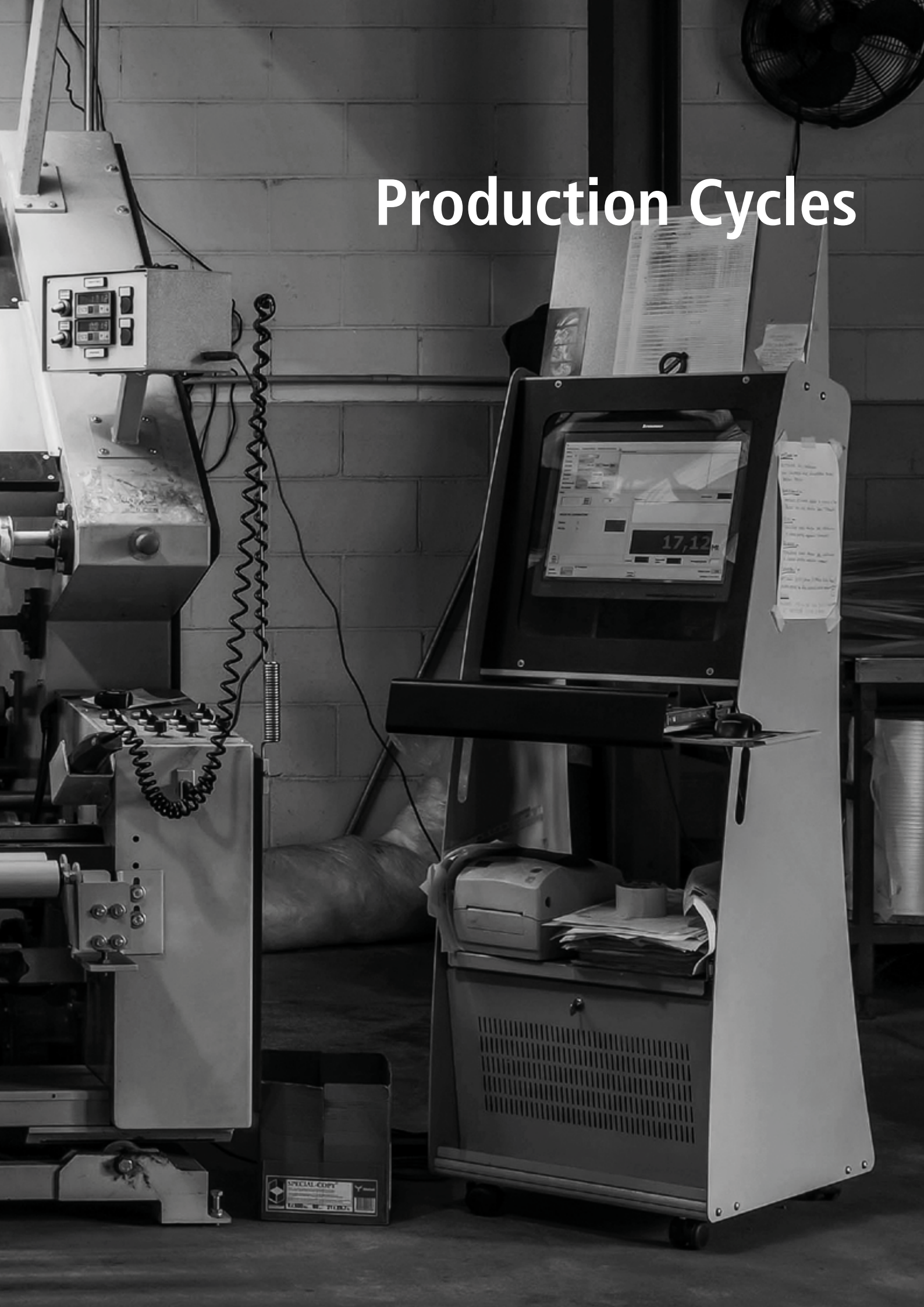


Multifunctional fabrics

Hydrocarbon, Oil and Gas, Fuel Refinery, Fire Departments, Explosive Substances and Powders Industry, Chemical, Airport Operators, Flight Control, Aircraft Maintenance, Airline Crews, Aeronautic Industry, Railways, Road Maintenance.







Production Cycles

Production Cycles

Protective knitted fabrics



Research and Development

Argar Technology is the R&D unit, created to study and to realize innovative products, whose implementations regard both their features and the range of choice, with the objective of satisfying the market's demand and assuring high-standard quality along the entire productive process, which is located in the national territory.



Weaving

First of all, we constantly look for innovative yarns, we select and test the best ones from the best suppliers. The production takes place in a conditioned location in order to maintain the temperature steady, as well as the level of humidity that has to stay unvaried during the production cycle so that the fabric preserves its peculiarities.

We have available circular knitting machines with several different diameters and fineness, in order to realize different kinds of fabric: Jersey, Piquet, Rib Stitch, Fleece and Pile, Compound, Single or Double Knitted.





Crude warehouse

A substantial stock service of raw fabric allows us to always be fast in handling and processing orders according to the requested color.





Dyeing plant and finishing

We take advantage of qualified partners with whom we have been operating for a long time; this strong relationship gives us the opportunity to control the dyeing process on a daily basis.

Argar offers the possibility to realise extremely low minimum dyeing batches in any color, either from the samples or from the Pantone® folders, perfectly recreating the required color.



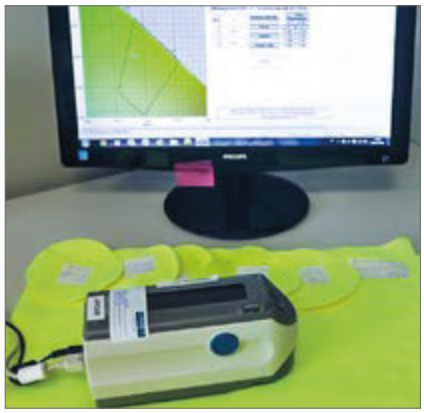
Quality Lab and Control

All fabrics are controlled by our Quality Laboratory.

- COLOR control, both standard and fluorescent: visual with evaluation cabin and spectrophotometric.
- WEIGHT control by M2, air mass
- HEIGHT control
- DIMENSIONAL STABILITY control
- PILLING and PILLING MARTINDALE (Pile)

The final quality control provides for a systematic check of the production.

Before each delivery, 100% of the fabric is verified in every detail thanks to the eyeglass, possible flaws are written off.







Tech & Project

Tech & Project

Project 2.0

Argar and the Environment

The 2.0 trademark identifies knitted fabrics and textile accessories produced by **Argar** using recycled raw materials. The project 2.0 complies with the Green Procurement policy adopted by Public Administration and Private Enterprises. **Argar** involved other italian companies in this project, which are exclusively located in the surrounding area, in order to reduce the environmental footprint. Fabrics integrated in the Project 2.0 are entirely produced with recycled polyester yarn: **Argar**'s safety, comfort and quality are combined to safeguard the environment.



FFRES

Naturally Fresh

FFRES is the strong and long lasting antibacterial treatment, consisting in the application of silver micro composites on **Argar**'s protective fabrics. The peculiar antibacterial features of the treatment guarantees a top hygienic level and no odours, even after frequent washings.

FFRES maintains the skin's natural physiological balance while keeping an extremely clean and fresh feeling. FFRES fabrics, processed with antibacterial treatment, are certified EN ISO 20743

FFRES
NATURALLY FRESH

Spincoil

Antistatic technology

Argar developed the innovative SPINCOIL technology that, thanks to the continuous yarn containing antistatic fibres, is able to dissipate electrostatic charges. This result leads to a great fabric dispersion ability that lasts after several and frequent washings and drying cycles.

SPINCOIL

Double Knitting

Always perfect

Double Knitting technology takes advantage of the extraordinary properties of endurance, washing resistance and color fastness of the polyester fibre, preserving the comfort and the benefits of transpiration and hygiene given by pure cotton on the skin.



Industrial Washings

Certified EN ISO 15797

Argar benefits from the experience of important accredited laboratories for the certifications of fabrics complying with the Industrial Washing processes according to the ISO 15797. This development allowed a higher washing temperature and the suitability with the tunnel or tumbler drying at high temperatures, maintaining fabrics' quality and its antistatic, fireproof and high-visibility properties, preserving the color fastness even after several industrial washings.



YelcoDry

As long as you want

YelcoDry knitted fabrics are studied with polypropylene to improve the comfort of garments worn either for long time or in hard environmental conditions. Polypropylene in the internal layer, close to the skin, guarantees top level comfort and avoids odours even after many hours. Cotton on the external layer pledges absorption and allows color personalisation. The wide range of YelcoDry items includes the esd product line, made of protective knitted fabrics with antistatic properties.

YelcoDry
the smartest polypropylene solution

Multifunctional knitted fabrics

4 levels of protection

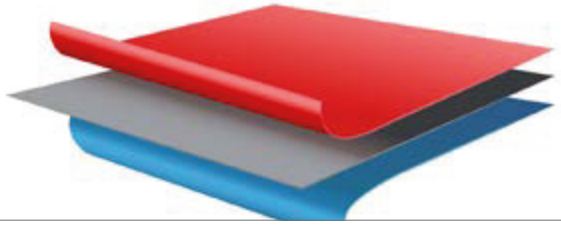
Argar multifunctional knitted fabrics represent a total protection. The Tes-fir-ESD-HV range combines several features: fireproof, antistatic, high-visibility and protection from the electric arc.

Tes-firESD - HV
arc flash protection

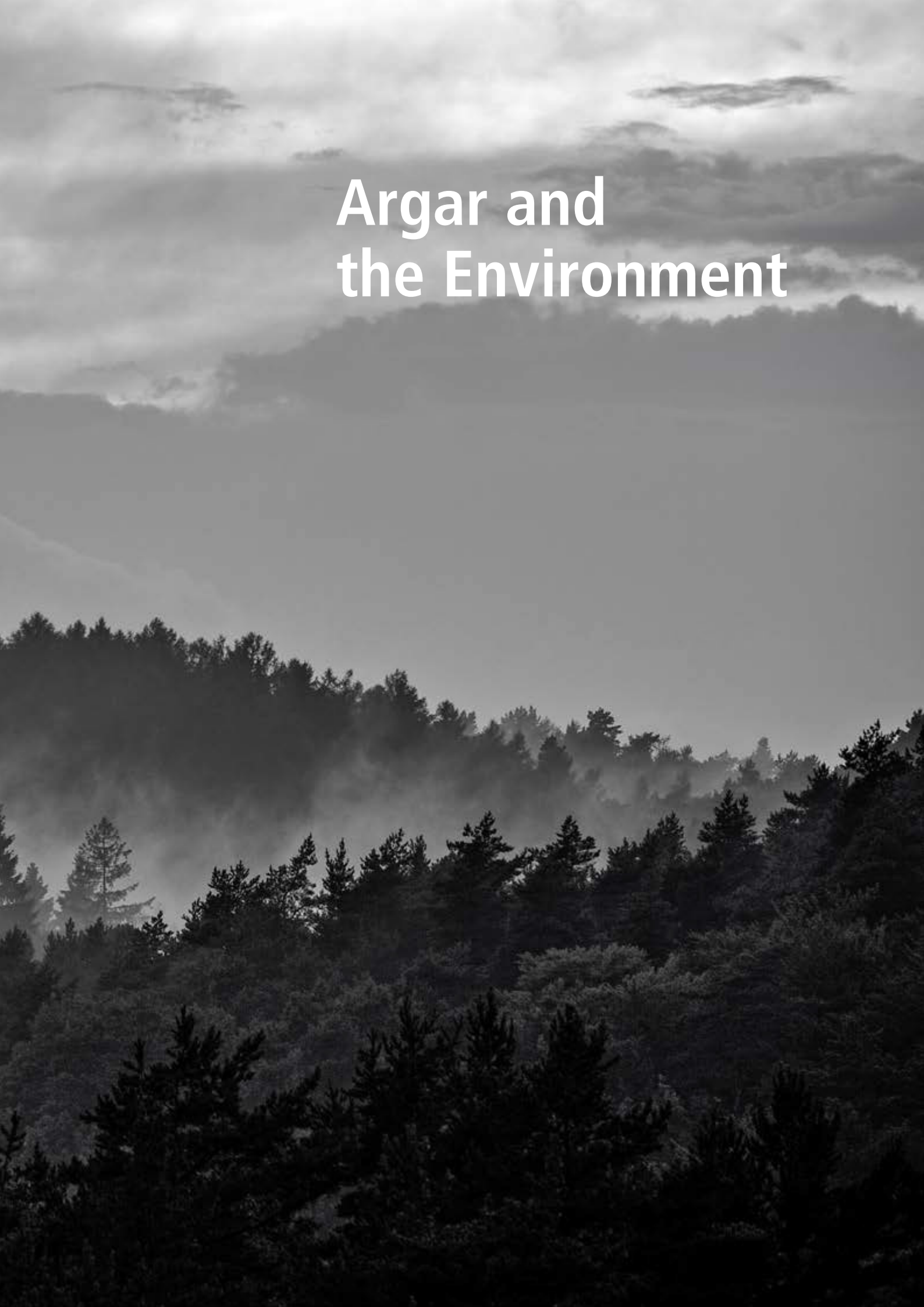
Compound

Suitable for every condition

Argar fleece is also used during the assembly of specific Compounds with transparent and transpirant membrane, which is wind-stopper too in order to face any environmental working condition. The Tes-firESD Compound guarantees antistatic and fireproof properties. ResistComfort Compound guarantee great performances. Low Pilling and wind-stopper, the ShieldTes Compound guarantees antistatic properties.







Argar and the Environment



ONE

Textiles for a Better Future

The global demand for textile products is steadily increasing, a trend likely to continue due to population growth and economic development. Meanwhile, the textile industry is facing tremendous environmental and resource challenges. 63% of textile fibres are derived from petrochemicals whose production and fate give rise to considerable carbon dioxide (CO2) emissions. The remaining 37% is dominated by cotton (24%), a plant associated with water depletion and with toxic pollution, due to intensive use of pesticides.

Argar is fully committed and aware of its Social and environmental responsibility and its response to the aforementioned challenges is the ONE fabrics line.

The products of ONE line are manufactured with recycled PET and organic cotton.

They are GRS and GOTS certified, therefore responds to criteria of environmental sustainability, toxicity and to the minimum social criteria of ILO (International Labour Organization).

The GOTS certification attest the utilization of organic cotton that compared to a standard cotton is cultivated without chemical fertilizers and harmful pesticides utilization, with processes that advance biodiversity, organic cycles, and soil health.

The Polyester is 100% recycled and respect to a non-recycled one allows for a 60% saving on energy resources and a 31% reduction in carbon dioxide (CO2) emissions.

Recycled Polyester Vs Conventional Polyester

-60% Energy demand



-30% C02 emissions



Organic Cotton Vs Coventional Cotton

-52% Energy demand



-46% C02 emissions

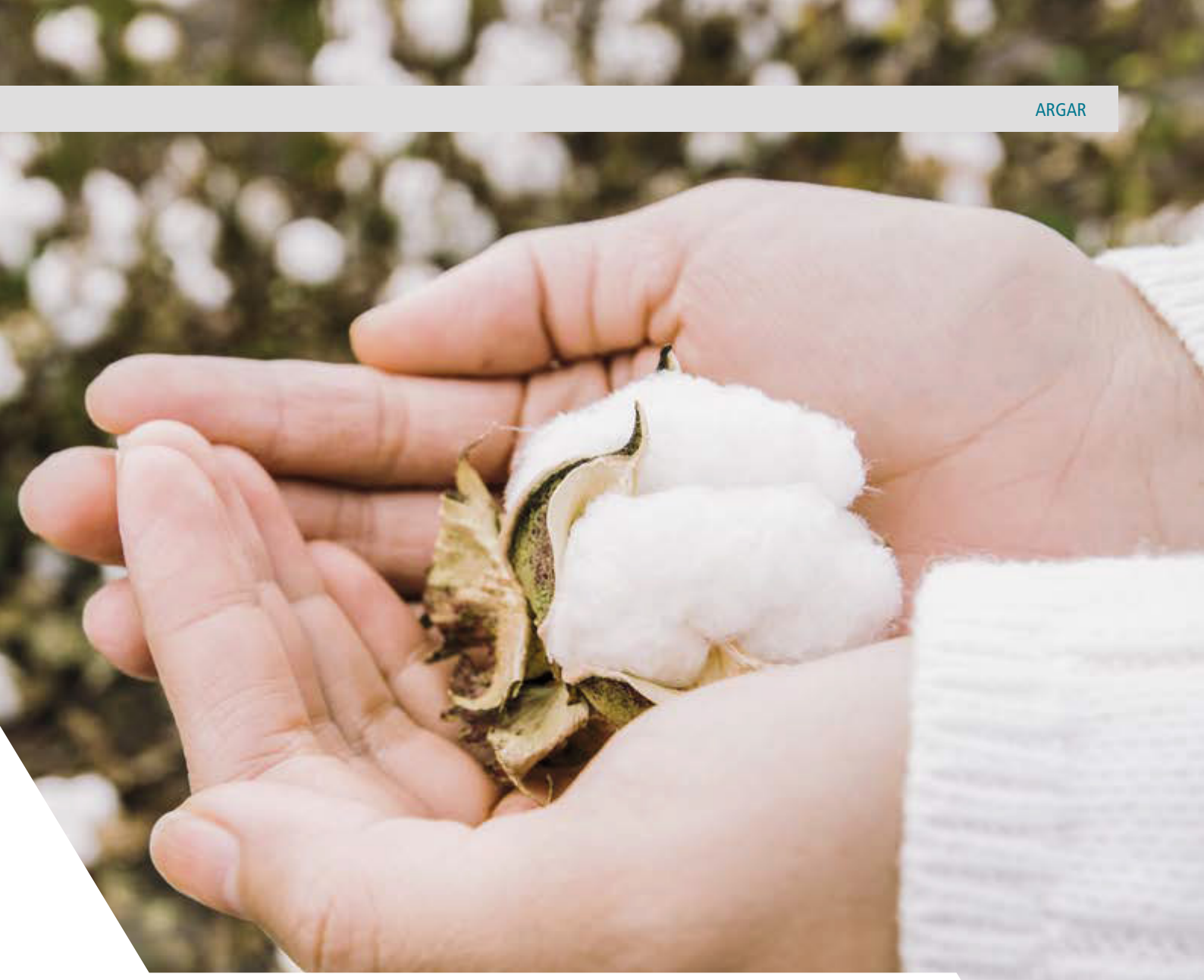


ONE

Textiles for a Better Future

100% NATURAL ORGANIC COTTON

RECYCLED POLYESTER



We are fully aware of our social and environmental responsibilities. Our concrete commitment to sustainability led to the development of the ONE fabrics line.



Textiles 2.0 Argar and the Environment

The 2.0 trademark identifies knitted fabrics and textile accessories produced by **Argar** using recycled raw materials. The project 2.0 complies with the Green Procurement policy adopted by Public Administration and Private Enterprises.

Argar involved other italian companies in this project, which are exclusively located in the surrounding area in order to reduce the environmental footprint.

Fabrics integrated in the Project 2.0 are entirely produced with recycled polyester yarn: **Argar**'s safety, comfort and quality are combined to safeguard the environment.

In the specific case, referring to the polyester yarn produced with the post-consumer recycled polymer compared to a yarn produced with traditional polymer, the analysis discloses striking data:

31% of reduction of greenhouse gases, cause of global warming



57% of reduction of abiotic natural resources consumption (metals, minerals and fossil fuels)



61% of reduction of non renewable resources consumption



26% of reduction of renewable resources consumption



60% of reduction of energy resources





ARGAR, twenty years of experience in manufacturing protective technical knitted fabrics. But we do not want to stop.

We keep on investing in people, in raw materials and in technology in order to achieve our vision: to produce sustainable high quality fabrics.



argar srl Technology

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MISTO
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