

Sustainability. ***To the Point.***



**„The future depends
on what you do today.“**

Mahatma Gandhi

Into a sustainable future with Hohenstein.

It's never easy to predict what will happen next for the textile industry. But we can be sure about one thing: in the future, sustainably produced textiles will be no less fashionable. Whether your business is about brands, retail or production, we offer tailored solutions that empower you to manage your product stewardship in all areas of sustainable commerce.

At Hohenstein, we specialise in testing, certifying and researching all kinds of textile-based products. With over 1,000 employees at our headquarters in Bönningheim and in the more than 40 subsidiaries, offices and laboratories around the world, we are actively tackling the current international challenges of textiles.

We offer know-how and practical tools that enable you to talk transparently to third parties about your services at all stages of the textile supply chain. This helps satisfy not only your customers, but also the consumers of today. And of tomorrow.



We live textiles.

Your path to a sustainable future – with our extensive service portfolio.

Biodegradability

Testing: Analysis of the ecological impact of textiles by means of our Hohenstein test setup based on DIN standard EN ISO 11721/846.

Benefit: Disposing of textiles in an environmentally responsible manner has become an important issue. Accordingly, we examine closely what actually happens to different fibre-based materials when they decompose in the soil – e.g. how quickly they disintegrate, what remains of them and whether any of their constituents actually harm the environment (ecotoxicology).



Genetically modified cotton Screening | Identification | Quantification

Testing: Accredited testing of greige cotton textile precursors for genetically modified organisms (GMO) according to the ISO/IWA 32:2019 protocol (GOTS compliant), or according to the requirements of OEKO-TEX® STANDARD 100. In case of positive GMO screening, quantification of the genetically modified cotton lines in the sample is possible.

Benefit: As a manufacturer, brand, certification agency or consumer protection organisation, you benefit from clear yes/no statements regarding GMO-free cotton. Quantification offers advantages in terms of transparency of supply chains & fraud management.



Microfibre analysis

Testing: Quantification of fibre release and fibre length distribution with the Hohenstein method: Dynamic Image Analysis (DIA) or gravimetric measurement of total abrasion by filtration according to the University of Leeds / Microfiber Consortium (UoL/TMC) method or AATCC TM212.

Benefit: We can analyse textiles or wastewater – and you can develop or source more sustainable materials. The advantage is that you can assess the status quo of microparticle shedding, identify fibre-based microparticles and receive independent verification of your own assessments and claims.



DIN SPEC 4872: Fibre release, biological degradation and ecotoxicity

Testing: Detection and classification of the environmental effects of textiles during washing in terms of fibre release, biodegradability and ecotoxicity as a standardised test method (DIN SPEC 4872).

Benefit: Policy makers and consumers are becoming increasingly aware of the problem of unintentional release of fibres into wastewater and the resulting environmental impact. Our reliable data can form the basis for sustainable product development with a clear competitive advantage.



Digital fitting and material parameters

Services: We digitise the material parameters of your clothing fabrics and provide exact data for generating realistic 3D simulations using common software systems.

Benefit: Using 3D technology to design materials, develop models and communicate product properties not only makes processes more efficient and sustainable, but also saves resources and shortens the time to market. Hohenstein provides support and advice where you need it most, especially if you are planning to optimise certain stages of the digital process – such as 3D design, visualisation, developing patterns and prototypes, testing garment fit or creating production documents.





Wastewater testing

Testing: Analysis of production wastewater in accordance with international standards based on conventional parameters, or for compliance with textile initiatives (e.g. ZDHC, Greenpeace Detox campaign, OEKO-TEX® STeP/DETOX TO ZERO).

Benefit: Assurance that your production complies with a variety of international specifications and initiatives. Proof of your efforts in minimising the emission of potentially hazardous chemicals.

Chemical management

Testing: Chemical testing for textile and leather production (OEKO-TEX® ECO PASSPORT), assessment of the chemical management in your production facilities (OEKO-TEX® STeP) and the criteria of OEKO-TEX® DETOX TO ZERO.

Benefit: Establishing and monitoring chemical management – starting with procurement allows you to minimise the harmful impact of chemicals on people and nature, and meet the goals of Greenpeace's Detox campaign.



Occupational safety | Health | Social

Testing: We conduct on-site audits at production facilities to check whether the legal requirements and international standards relating to human rights and fair working conditions are being complied with.

Benefit: Independent certification through OEKO-TEX® STeP or the Green Button allows you to provide credible evidence that you and your suppliers respect social responsibility and human rights.



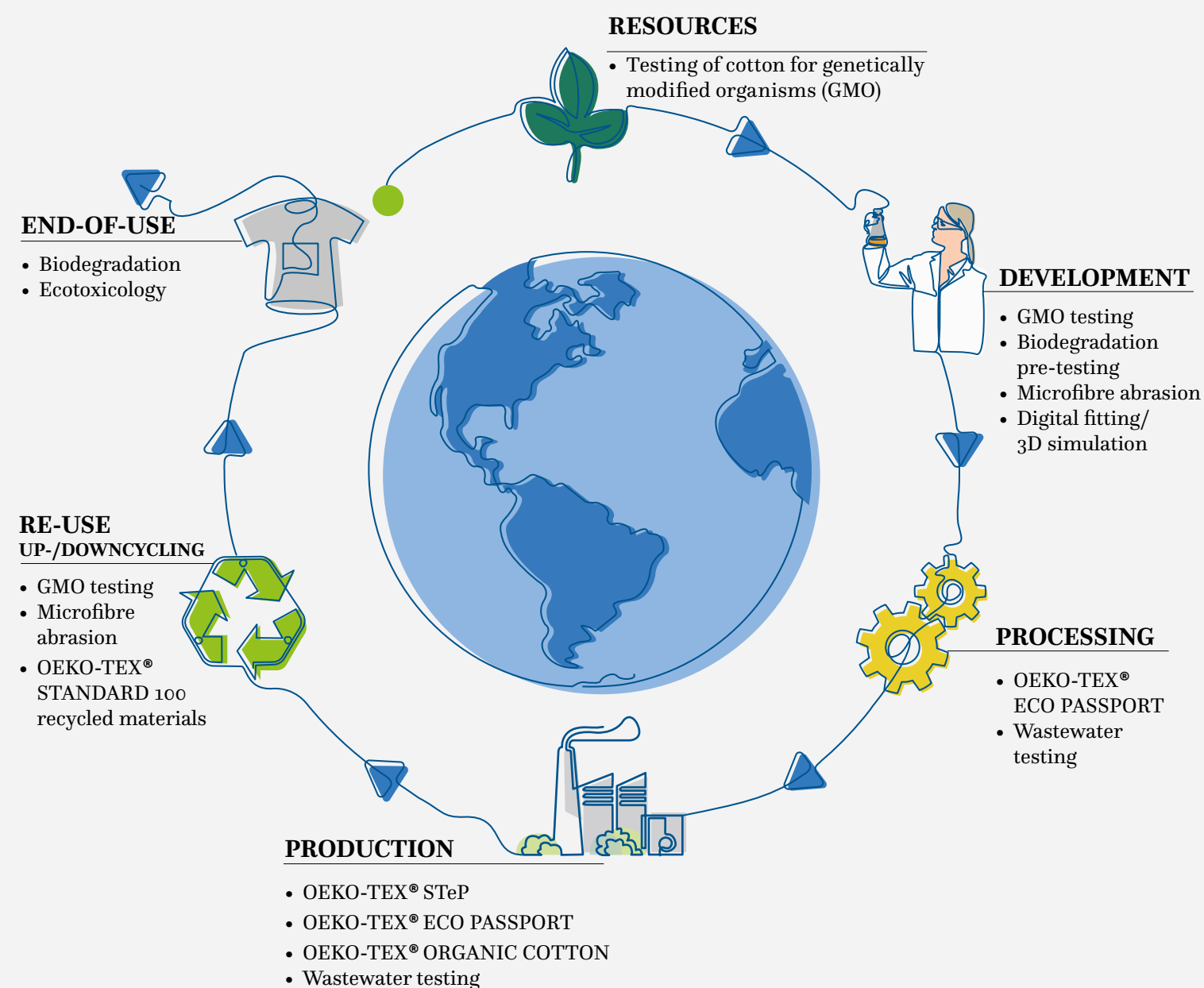
Transparent supply chains

Services: Our services offer practical support in meeting a key demand of policymakers, NGOs and consumers: transparent supply chains.

Benefit: With the OEKO-TEX® MADE IN GREEN label, consumers can follow the entire supply chain of their textile/leather product online. The management tool OEKO-TEX® RESPONSIBLE BUSINESS helps to meet supply chain due diligence requirements in the textile and leather industry. The myOEKO-TEX® website provides companies with a vehicle for centrally managing sustainability issues affecting their supply chains.

The life cycle of textiles.

From one-off testing to complete processes, we can accommodate your individual requirements. As an internationally recognised partner that you can rely on, we work alongside your company at every stage of the value chain.

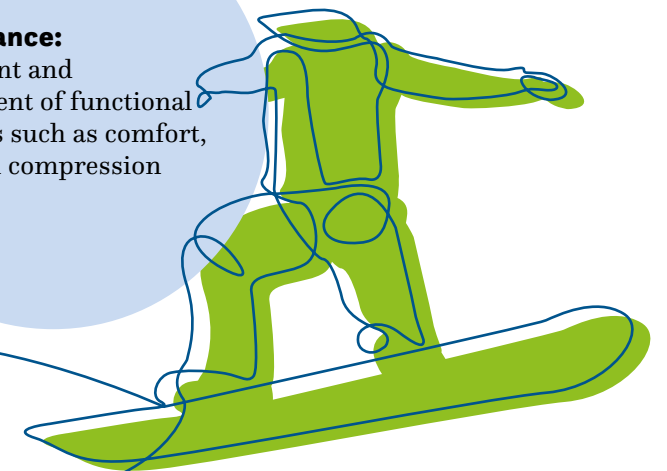


Testing beyond the obvious.

Hohenstein offers a comprehensive range of services and support options for textiles of outstanding quality. But we don't just stop there. We also conduct research and share knowledge with others to continually expand our know-how – and yours.



Textile technology and chemical testing:
Laboratory testing of all kinds of textile products for legal compliance, international standards and your own, in-house quality requirements



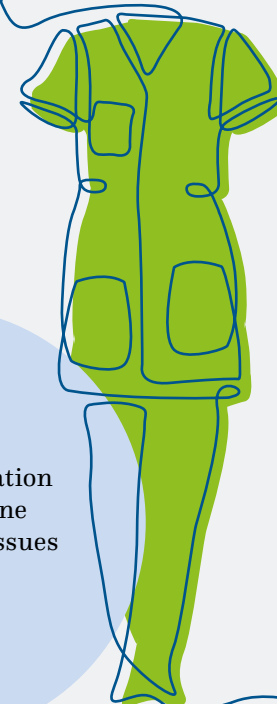
Performance:
Assessment and development of functional properties such as comfort, odour and compression



Workwear:
Testing and certification of personal protective equipment (PPE), workwear and corporate fashion

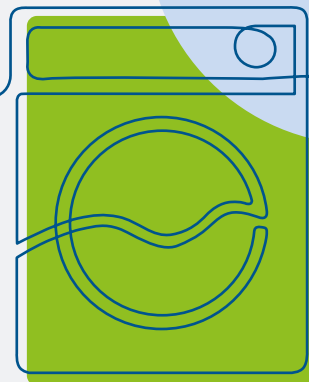


Staff training through the Hohenstein Academy:
A variety of courses, practical seminars, webinars and in-house training, covering a whole spectrum of topics. We offer introductory and detailed training in specific areas.



Health:
Testing and certification on all kinds of hygiene and UV protection issues

Textile care:
Testing and certification for industrial and domestic textile care



Fitting:
Pattern-making and the testing of garment fit, including advice and individual project support

Selected product labels and sustainability services.

Communicate your test results and certifications effectively.

An additional benefit for Hohenstein customers: our globally valid Hohenstein quality promise! It makes no difference which of our laboratories you choose to work with: we offer uniform testing, results and technical expertise across all locations. Being close to our customers in all key consumer and production areas of the textile industry enables our local experts to answer your queries promptly.



Inspiring Confidence.

HOHENSTEIN certification

The **Hohenstein Quality Label** provides brands, retailers and consumers with independent proof that claimed product features adhere to the highest quality standards.

The **Green Button** is a German state-approved seal for sustainably produced textiles. It lays down binding requirements aimed at protecting people and the environment during the textile manufacturing process.

OEKO-TEX® certification

OEKO-TEX® ECO PASSPORT: Three-stage certification process for sustainable chemicals, dyes and auxiliaries.

OEKO-TEX® STeP: Holistic analysis and certification for environmentally friendly and socially responsible production facilities.

OEKO-TEX® STANDARD 100: Product label and certification for textile products that have been tested for harmful substances at all stages of processing.

OEKO-TEX® ORGANIC COTTON: A reliable third-party testing and certification system for textile products made from organic cotton or blends with $\geq 70\%$ organic cotton.

OEKO-TEX® MADE IN GREEN: Traceable product label for textiles and leather articles made from materials that have been tested for harmful substances and manufactured in environmentally friendly factories under socially responsible working conditions.

OEKO-TEX® LEATHER STANDARD: Product label and certification for leather articles that have been tested for harmful substances at all stages of production.

OEKO-TEX® RESPONSIBLE BUSINESS: Management tool to meet supply chain due diligence requirements in the textile and leather industry.





Consistent results. Worldwide.
The same high quality and testing standards worldwide.

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