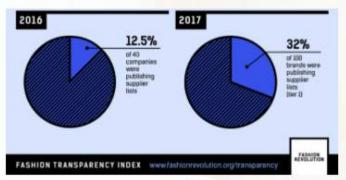


International Demands



TRIBUNE EXPRESS
TRIBUNE GUSINESS
TECH VIDEOS WORLD OPPINGON UNFASTILE SPORTS

Global markets

Syour Carrespondent Publisheds April 27, 2017

"An increasing number of brands are disclosing information about their first-tier supply chain".

Guardian sustainable business:
supply chain

Behind the label: can we trust certification to give us fairer products?

It began with Fairtrade. Almost 30 years later, with hundreds of different certifications is it time to question what they all do and who benefits?

Fashion Revolution, 2017



Ecolabel Index is the largest global directory of ecolabels, currently tracking 465 ecolabels in 199 countries, and 25 industry sectors.



Caspor van Vark

Chromium-6: 'Erin Brockovich' chemical threatens two-thirds of Americans

We simply can't continue to survive with toxic danking water, says Ettn Brockovich, as a new report finds 200 m; Boo people exposed to chromium-fi FINANCIAL TIMES

ANIES MARKETS OPINION WORK & CAREERS LIFE & ARTS

ANIES MARKETS OPINION WORK & CAREERS LIFE & ARTS

The eco has landed: sustainability gets stylish

Luxury labels are finally putting green ideas at the heart of their design process

LUXUITY Tables on MARCH 10, 2017 by: Mark C O'Plaherty

OEKO-TEX®

"Consumers are starting to consider **sustainable practices** a **basic cost of entry**, rather than a market differentiator". Nielsen, 2015

The Key to Confidence - Consumers & Textile Sustainability

Global Survey conducted in Summer 2017

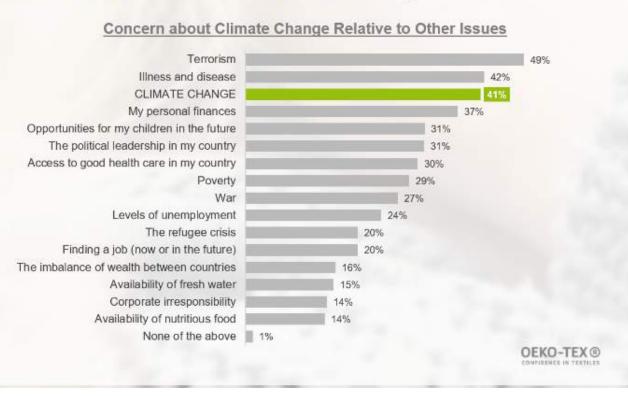
- · Focus on sustainability and, more specifically, textile sustainability
- · Ground-breaking study, first of its kind, focusing on global consumers
- Over 11,200 consumers in 10 countries participated



Climate Change is a Priority Concern

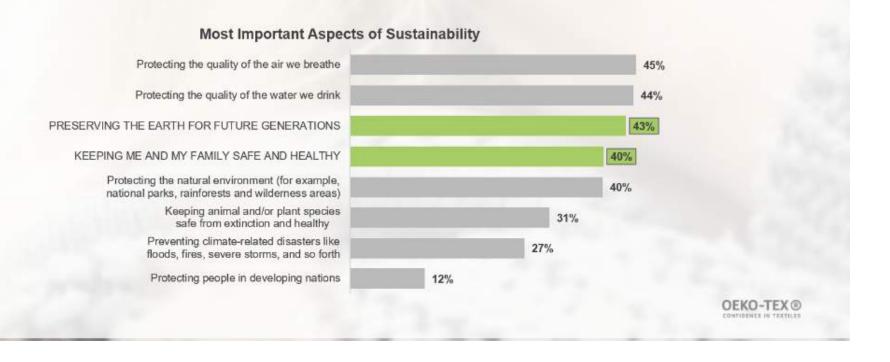
Consumer concerns about climate change are real and rank #3 in a long list of worries.

When given a list of 16 issues and asked to identify the 5 that "worry them personally the most," consumers globally rank "climate change" third.



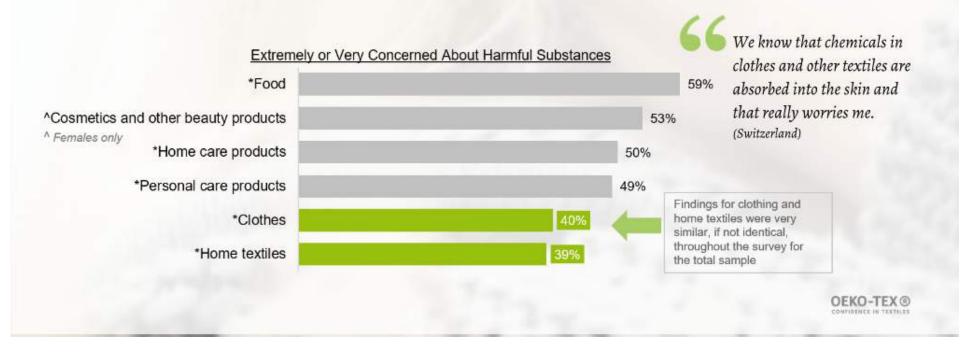
A Mix of Personal & Altruistic Motivators

Consumers care for a variety of reasons. People are motivated to want to think and act more sustainably by a combination of "close to home" factors and more global or altruistic considerations.



Concerns about Harmful Substances

About **four in ten** people globally are **"extremely"** or **"very" concerned** about harmful substances in both their clothes and home textiles.

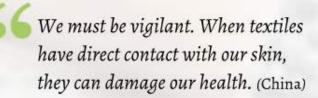


Safety from Harmful Substances

About 60% of people feel it is very important that the home textiles and clothing they buy be safe from harmful substances

However, only half as many give the industry high marks for its current ability to provide home textiles that are safe from harmful substances.

% who ratean 8, 9 or 10 (on a 10-point scale)	IMPORTANCE	ASSESSMENT of INDUSTRY
Clothing – safe from harmful substances	60	28
Home textiles – safe from harmful substances	60	31
Clothing – produced in a way that is environmentally responsible	53	27
Clothing – produced in a way that is socially responsible	54	28



Awarness versus Conviction

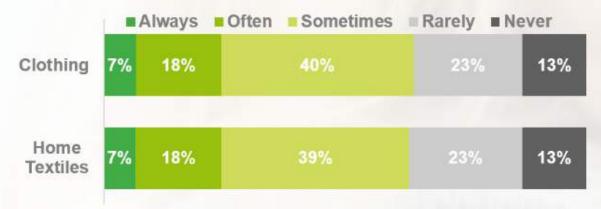
Awareness of "eco-friendly" textile products is high - on average, 80-90% of people are aware

- Purchase is especially high (54%) for eco-friendly textile products for babies and young children
- Consumers think favorably of eco-friendly products considering them to be higher quality, soft, innovative, unique, and durable



Checking "Eco-Claims"

Consumers today are often skeptical of claims like "eco-friendly" or "sustainable"

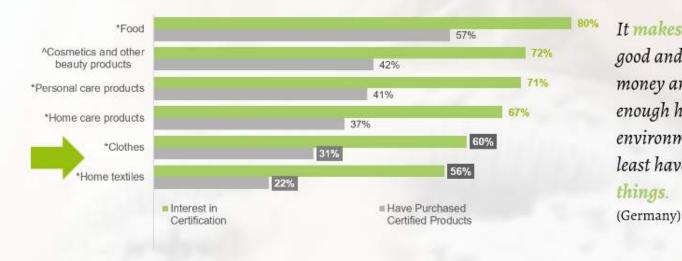


Two-thirds (64 - 65%) of those aware of eco-friendly home textiles indicate that they check if these claims are true.

25% of them do so "always" or "often"

Interest in & Purchase of Certified Textiles

6 in 10 consumers globally are interested in knowing if the home textiles and clothing they purchase are safe from harmful substances and produced in environmentally and socially responsible ways

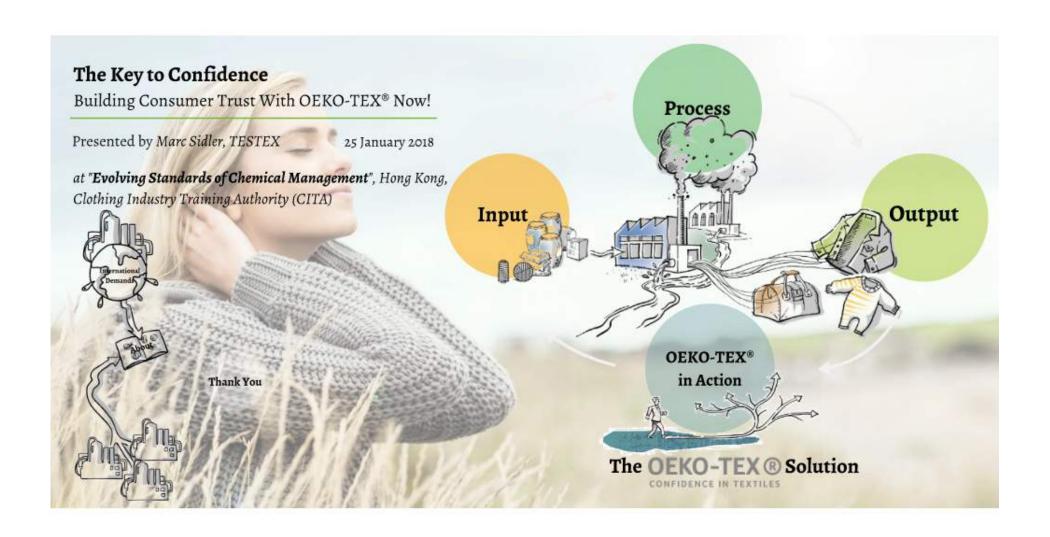


It makes me feel good to support such a good and important cause with my money and purchases. There are enough harmful substances in the environment as it is. In this way, I at least have an opportunity to influence things.

Factsheet Global Textile Sustainability Consumer Research



For further details please contact hongkong@testex.com



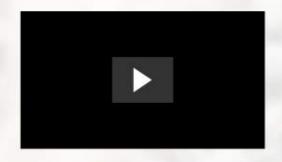


Why our customers have confidence in OEKO-TEX®

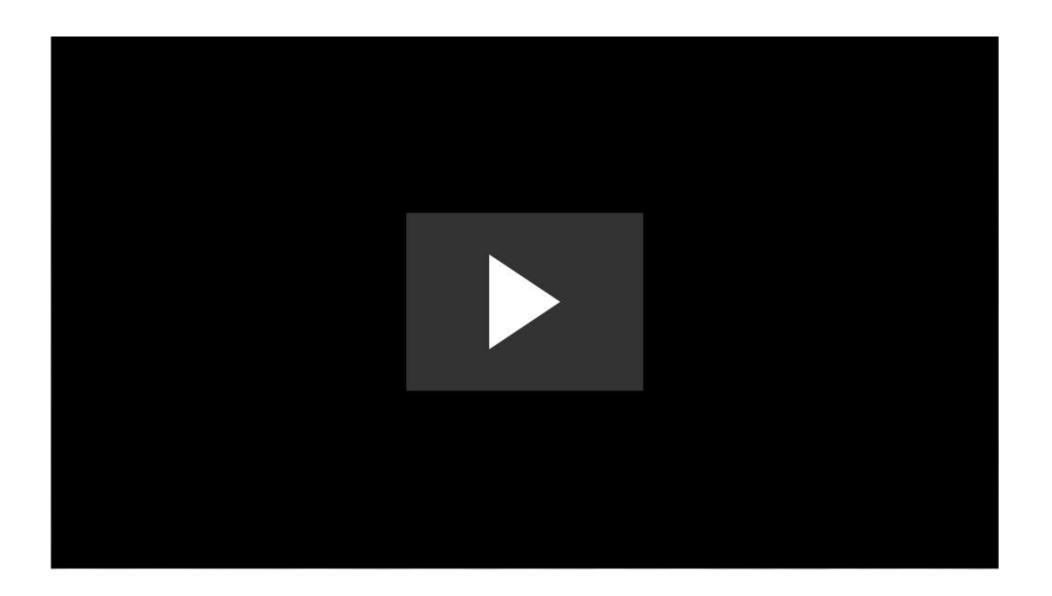
....OEKO-TEX® guarantees that the product is safe.

... OEKO-TEX® stand for a safer world.

... OEKO-TEX® is the future.







Why our customers have confidence in OEKO-TEX®

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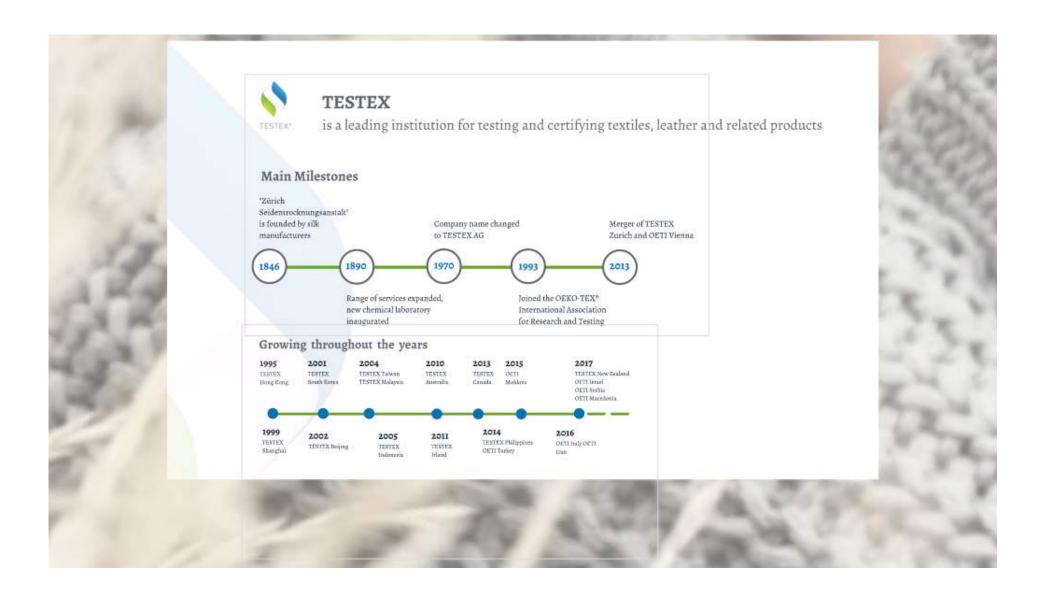
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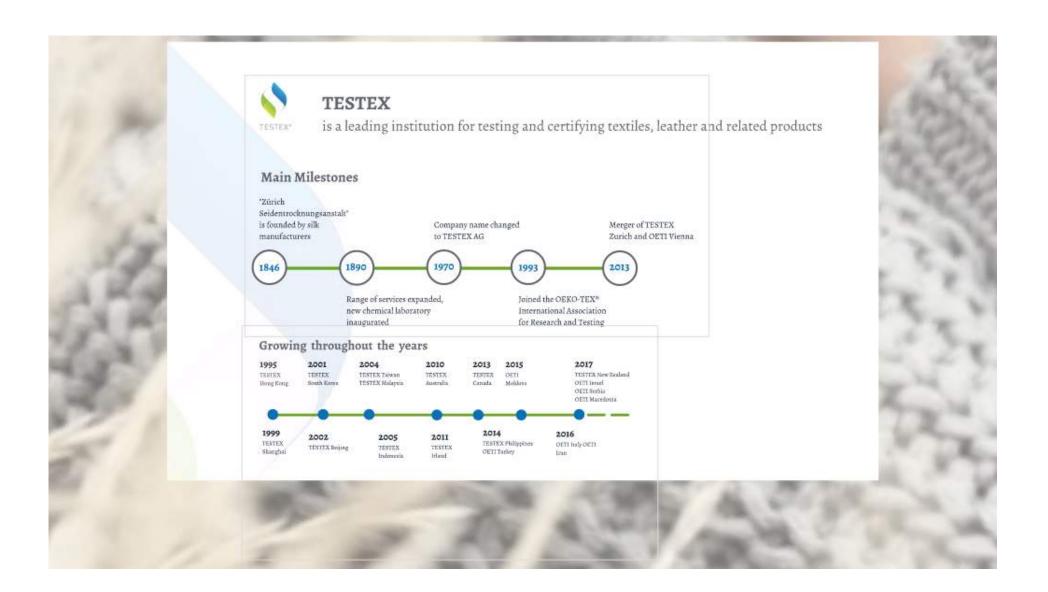


TESTEX

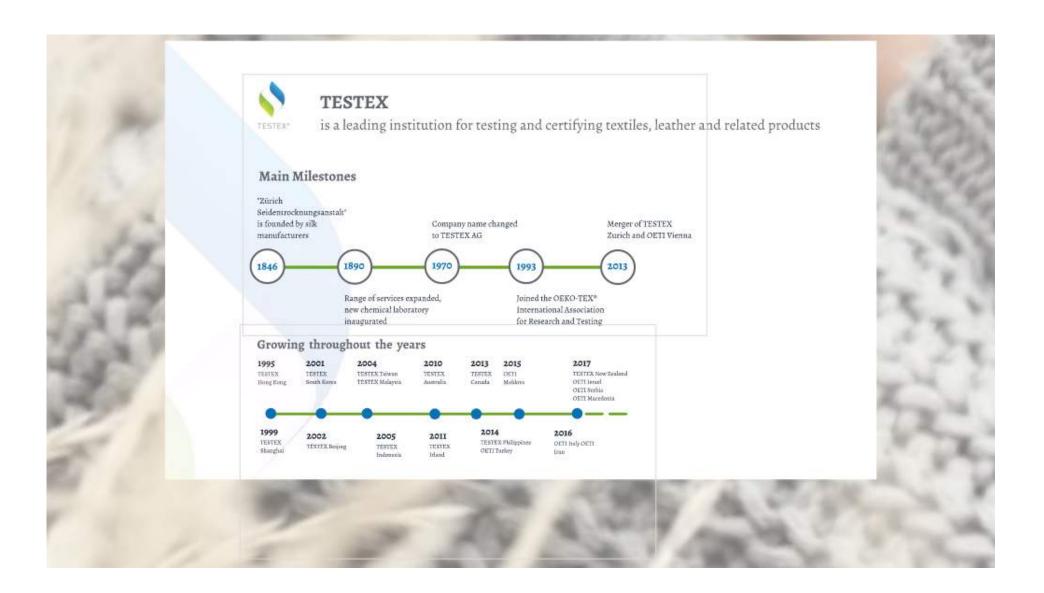
is a leading institution for testing and certifying textiles, leather a

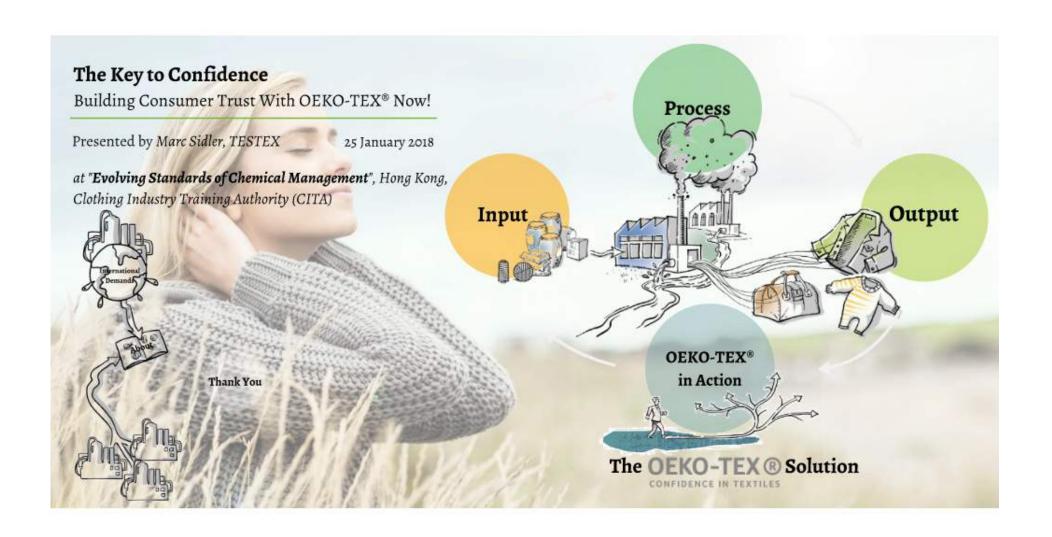
Main Milestones

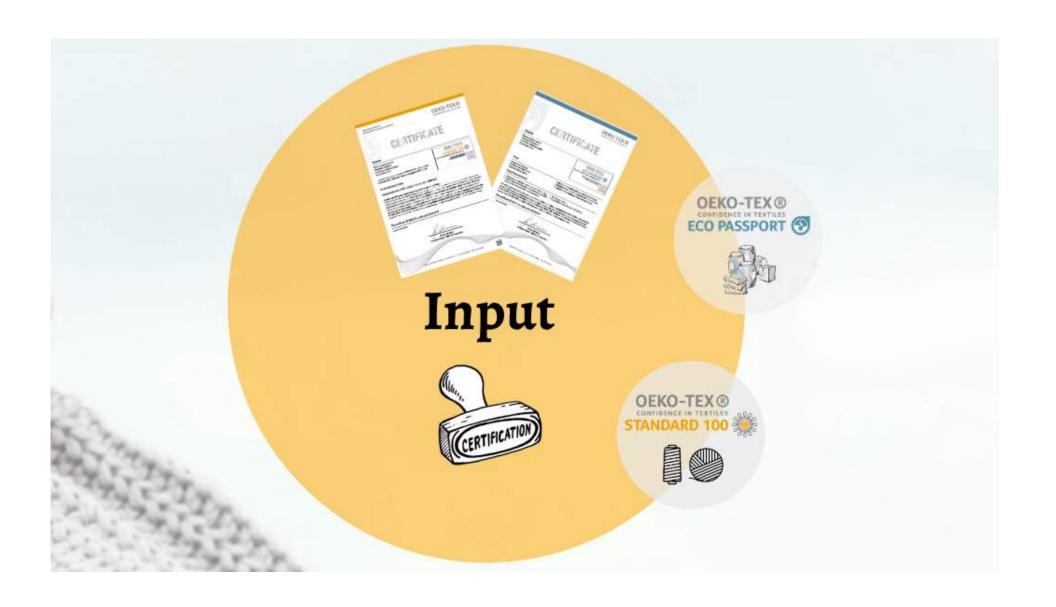












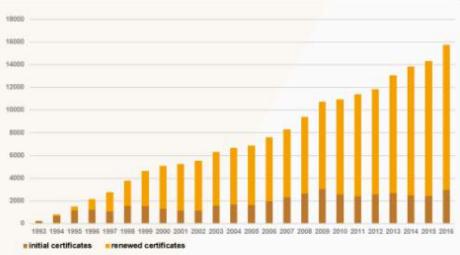


· Worldwide recognition

 Compliant with international standards: Appendix XVII of the REACh legislation, CPSIA (USA), GB Standard 18401-2010 (China)



STANDARD 100 by OEKO-TEX®



- · Established in 1992
- · Successful growth ever since



Modular System of STANDARD 100







Product Class I

Articles for babies and toddlers up to the end of their third year of life





Product Class III

Textiles of all kinds not in contact with the skin

Product Class II

Textiles of all kinds in close contact with the skin



Product Class IV

Furnishing materials for decorative purposes



Taking international initiatives CONFIDENCE IN TEXTILES into consideration



Every year international standards are closely screened to consider which substances should be added to the STANDARD 100 in the new year and which limit values should be adjusted.













The Proposition 65 List







New Test Criteria 2018



Additional harmful substances

- · allergenic disperse dyes
- · polycyclic aromatic hydrocarbons (PAHs)
- · extractable heavy metals (As, Hg, Pb, Zn, Mn, etc.)
- · chlorinated phenols (TeCP, TrCP, DCP, MCP)
- · chlorinated benzenes and toluenes
- · tin-organic compounds
- · pesticides
- perfluorinated compounds (including partially fluorinated compounds, alcohols, ...)
- · Solvent residues (NMP, DMAc, DMF, Formamide)
- · emission of volatile components
- · chlorinated solvents and other VOCs (only annex 6)
- · OPP
- · Phenol
- · Aniline (free available and after reduction)
- · Quinoline

Product quality

- · Skin friendly pH value
- · Colour fastness



Legally banned and regulated substances

- · banned Azo colourants/aromatic amines
- · carcinogenic dyes/colourants
- · chlorinated phenols I PCP
- · formaldehyde
- · phthalates/softener I
- · heavy metals I e.g. nickel, chromium (VI)
- · dimethyl fumarate (DMFu)
- · total content of cadmium resp. lead
- · dimethylfumarat (DMFu)
- · polycyclic aromatic hydrocarbons (PAHs)
- · perfluorinated compounds I (PFOS, PFOA)
- · flame retardant products (e.g. TRIS, TEPA, among others)
- · SCCP und TCEP
- · UV stabilizers
- · tin-organic compounds I (TBT, TPhT, DBT, DOT)
- · Bisphenol A
- surfactant-, wetting agent residues: certain alkylphenols and alkylphenolethoxylates (new: pentyl- and heptylphenol)

New limits

New parameter

New only under observation



Regulations for 2018 – Concrete Examples



Group	Substances	Initiative Taken Into Account	
	Bisphenol A	ECHA-SVHC	
Organic chemical compound	Aromatic Amine Aniline	EPA Group B2 MAK Group III Category 4 REACH ZDHC Ø ZDHC Zero Discharge of Hazardous Chemicals	
	Phenol	REACH	
Surfactant, wetting agent residues	Heptylphenol	ECHA-SVHC FECHA	
	4-tert. –pentylphenol	EUROPEAN CHEMICALS AGENC	





ECO PASSPORT by OEKO-TEX®

What is ECO PASSPORT?

- · An independent tool to manage and verify textile chemicals.
- · Easy to understand and transparent evaluation process.
- · A comprehensive platform to analyse compliance with MRSLs and RSLs.
- Ambitious set targets to eliminate chemical substances of high concern.





CERTIFICATE

STAGE I

RSL/MRSL SCREENING

STAGE II

ANALYTICAL VERIFICATION

STAGE III ON SITE VISIT



Why does the industry require ECO PASSPORT?

- · Knowledge (or at least estimation) of all chemical ingredients in materials and products (bill of substances).
- · Assurance that ingredients do not contain impurities and side-products.
- · Verification of the MRSL and RSL requirements defined by industry groups, NGO's or brands.

OEKO-TEX® CONFIDENCE IN TEXTILES ECO PASSPORT



ECO PASSPORT by OEKO-TEX®

ZDHC Announces the First ZDHC Accepted Certification Standards for ZDHC MRSL Conformance

10000402101

Today, the Zero Discharge of Hazardous Chemicals (ZDHG) Foundation is proud to announce ECO PASSPORT by OEKO-TEX® Programme and TosServices Full Materials Disclosure® (ToyFMO®) Programme as the first accepted certification standards, which are indicators of chemical formulations conforming to ZDHC's Manufacturing Restricted Substances List (MRSU) v 1.1.

The higher the conformance level, the more extensive and thorough the review of the chemical formulation and its producer.



The ZDHC initiative accepts the ECO PASSPORT by OEKO-TEX® as an indicator of conformity level 3 with their MRSL.



Conformance Guidance forms the backbone of the ZDHC Gateway





Upon approval, companies can have their products certified by ECO PASSPORT listed in the OEKO-TEX® Buying Guide / and if they wish from now on also in the **ZDHC Chemical Gateway**.





ECO PASSPORT by OEKO-TEX®

Substances which are hazardous to the environment or health

- · polycyclic aromatic hydrocarbons (PAH)
- · allergy-inducing dispersion dyes
- · pesticides
- · chlorinated benzenes and toluenes
- · chlorinated phenols
- · OPP
- · volatile components
- · chlorinated solvents
- · perfluorinated compounds
- · process preservatives
- aniline (free and after red.)
- · phenol
- · quinoline

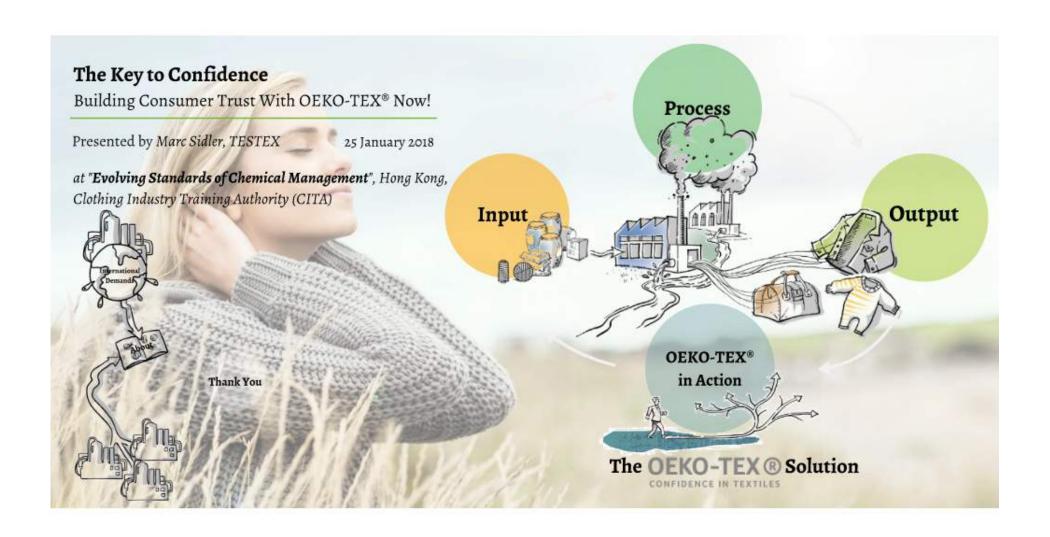


Legally banned and controlled substances

- · certain azo colorants / aromatic amines
- · carcinogenic dyes
- · pentachlorophenol
- formaldehyde
- · phthalates
- · PFOS und PFOA
- · heavy metals
- · banned flame retardants
- · tin-organic compounds
- · SCCP and TCEP
- · UV stabilizers
- · bisphenol A
- · certain alkylphenols and alkylphenolethoxylates (new: pentyl- und heptylphenol)

new parameter

new under observation







STeP by OEKO-TEX®

STeP stands for Sustainable Textile Production



Independent
Worldwide consistent

Textile Expertise & Experience

ENVIRONMENTAL REPORT AND ANALYSIS AND

- · More sustainable textile production
- Protecting the environment
- · More social and safe workplaces
- · An efficient and economic textile value chain
- Benchmark & scoring system



OEKO-TEX®







6 Modules of











The objective of STeP by OEKO-TEX® certification is the permanent implementation of environmentally friendly production processes, optimum health and safety and socially acceptable working conditions.







Responsibility







OEKO-TEX ®



www.standardsmap.org



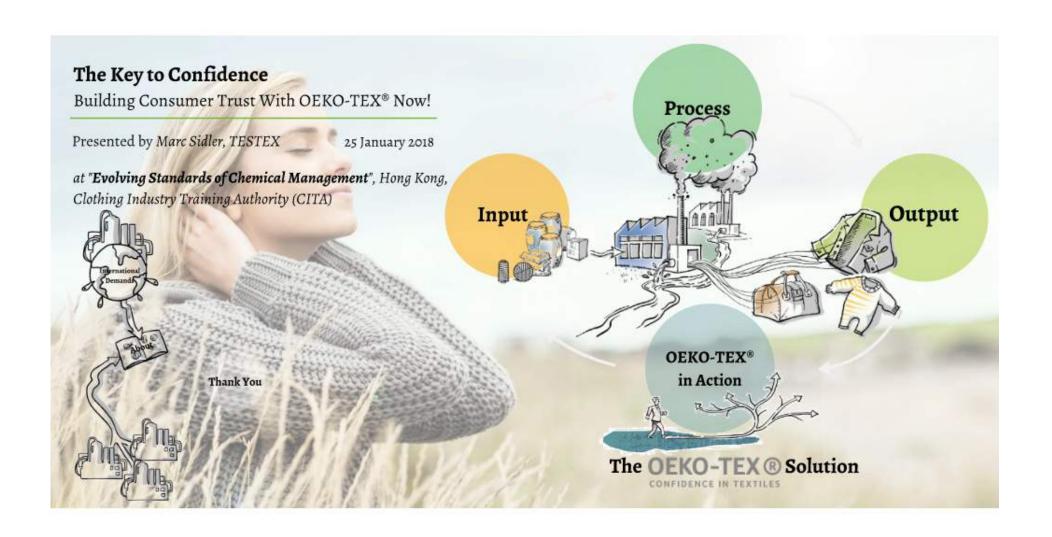
International Trade Center (ITC)

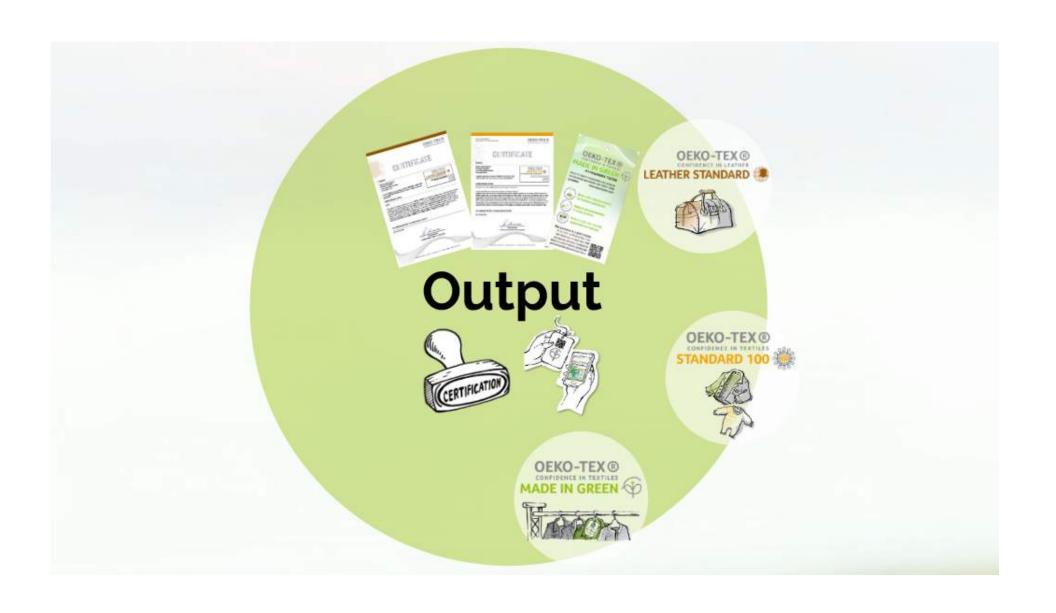
joint mandate of the World Trade Organization (WTO) and the United Nations (UN)

Information tast updated in the Standards Map database.

- . STEP by CIEKO-TEX 8 Nov 2016
- bluesign@system December 2016
- Global Organic Textile Standard GOTS 12 April, 2017





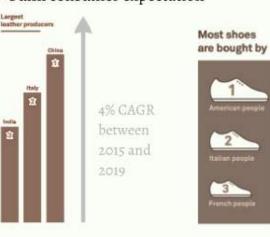




LEATHER STANDARD by OEKO-TEX®

Why a certification for leather?

- · Increasing demand of leather goods worldwide.
- · No comparable 3rd party certification on the market
- · Fulfil consumer expectation



An average consumer carries 4 leather items at any time



- The production and finishing process of leather is different from textile production (this includes the chemicals used.)
- · Challenge of using natural material which needs chemistry!
- Legal requirements are different compared to textiles.

Sources: www.stahl.com/en/how-leather-is-made.htm; www.technavio.com





Additional harmful substances

- · allergenic disperse dyes
- · polycyclic aromatic hydrocarbons (PAHs)
- · extractable heavy metals e.g. As, Hg, Pb, etc.
- · chlorinated phenols (TeCP, TrCP, DCP, MCP)
- · chlorinated benzenes and toluenes
- · tin-organic compounds (10 additional substances)
- · pesticides
- perfluorinated compounds (including partially fluorinated compounds, alcohols, ...)
- · solvent residues (NMP, DMAc, DMF, Formamide)
- · process preservatives (OPP and others)
- · emission of volatile components
- Aniline (free available)
- · Phenol
- Quinoline

Product quality

- · Skin friendly pH value
- · Colour fastness

LEATHER STANDARD by OEKO-TEX®

Legally banned and regulated substances

- · banned Azo colourants/aromatic amines
- · carcinogenic dyes/colourants
- · chlorinated phenols PCP
- · phenols PCP
- formaldehyde
- · phthalates/softener
- · heavy metals e.g. nickel, chromium(VI)
- cadmium- or lead total content
- dimethyl fumarate (DMFu)
- · polycyclic aromatic hydrocarbons (PAHs)
- · PFOS, PFOA
- · flame retardant products (e.g. TRIS, TEPA, among others)
- · SCCP and TCEP
- · UV stabilizers
- · tin-organic compounds (TBT, TPhT, DBT, DOT)
- surfactant-, wetting agent residues: certain alkylphenols and alkylphenolethoxylates (new: pentyl- and heptylphenol)
- · bisphenol A

New limits

New parameter

New only under observation

OEKO-TEX® CONFIDENCE IN LEATHER Product Classes of the LEATHER STANDARD



Articles for babies and toddlers up to the end of their third year of life





Product Class III

Textiles of all kinds not in contact with the skin

Product Class II

Textiles of all kinds in close contact with the skin





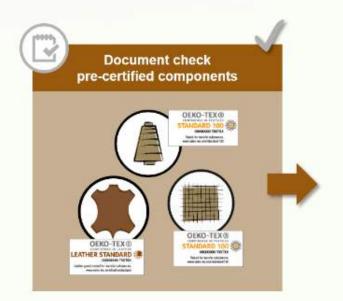
Product Class IV

Furnishing materials for decorative purposes

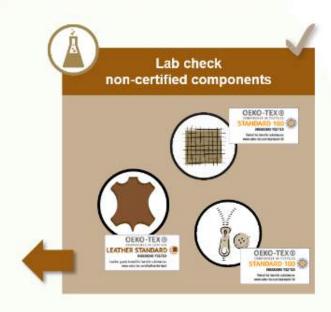


Modular System of LEATHER STANDARD









- saving time and cost
- compatible with STANDARD 100 by OEKO-TEX®

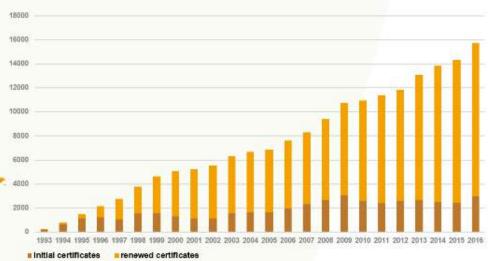




STANDARD 100 by OEKO-TEX®

- Worldwide recognition
- Compliant with international standards: Appendix XVII of the REACh legislation, CPSIA (USA), GB Standard 18401-2010 (China)





- · Established in 1992
- · Successful growth ever since





The Key to Confidence

Consumers & Textile Sustainability

Reassurance of STANDARD 100 by OEKO-TEX® Certification

- 43% globally indicated that they are aware of OEKO-TEX®, the highest of all certifications tested.
- About half of those consumer aware claim to have purchased at least one OEKO-TEX® certified article.
- · Consumers who learned about OEKO-TEX® thought very highly of the brand.
- · Nine in 10 consumers indicated that an OEKO-TEX® label would give them confidence in the textile products they purchase.





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a traceable product label, exclusively for textiles

Products awarded the MADE IN GREEN label are:





a traceable product label, exclusively for textiles

Products awarded the MADE IN GREEN label are:



made with material tested for harmful substances





a traceable product label, exclusively for textiles

Products awarded the MADE IN GREEN label are:



made with material tested for harmful substances



made in environmentally friendly facilities





a traceable product label, exclusively for textiles

Products awarded the MADE IN GREEN label are:



made with material tested for harmful substances



made in environmentally friendly facilities



made in safe and socially responsible workplaces





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Products awarded the MADE IN GREEN label are:



www.oeko-tex.com/standard100

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IADE IN GREEN 夲 MADE IN GREEN by OEKO-TEX®

a traceable product label, exclusively for textiles



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made in safe and socially responsible workplaces

Products awarded the MADE IN GREEN label are:



Tested for harmful substances. www.oeko-tex.com/standard100 made with materials tested for harmful substances



www.oeko-tex.com/step

sustainably produced







Any company within the textile supply chain can label their products with MADE IN GREEN.







What is MADE IN GREEN

Any company within the textile supply chain can label their products with MADE IN GREEN.







MADE IN GREEN is **transparent** and allows identification and benchmarking of the **supply chain** for a single product.



What is MADE IN GREEN

Any company within the textile supply chain can label their products with MADE IN GREEN.







MADE IN GREEN is transparent and allows identification and benchmarking of the supply chain for a single product.

MADE IN GREEN label with product ID and/or QR code is a unique communication tool which allows consumers to trace the manufacturers of textile products.





The Key to Confidence

Consumers & Textile Sustainability

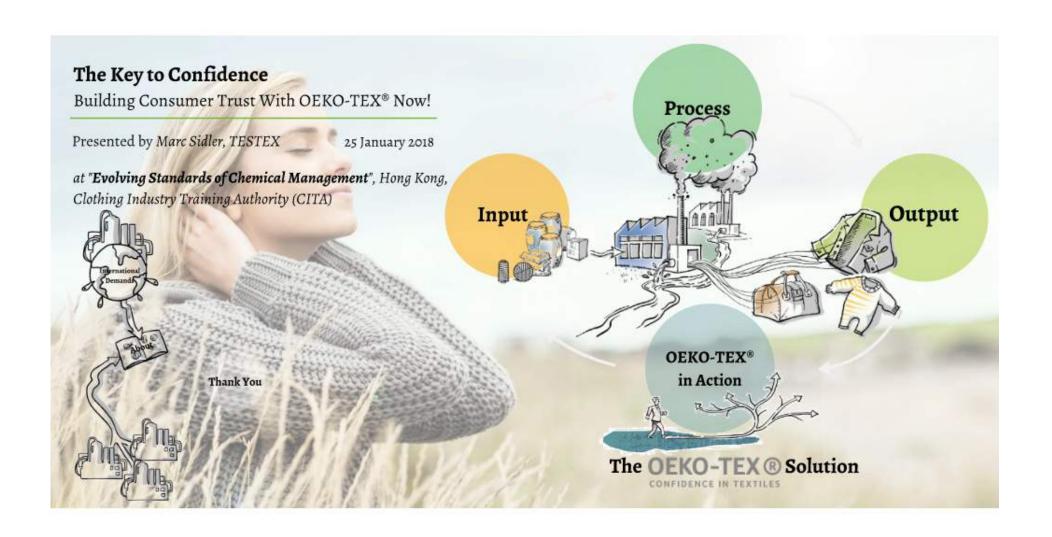
Brands Play An Important Role

42% "Like to know the values and principles of brands of clothing they buy"

38% "Like to know what small steps brands have taken to be more sustainable -even if they're not fully 'green'"

Many consumers commented spontaneously that a certification label helps (or would help) them know which brands to trust and which to avoid.







The OEKO-TEX® Buying Guide

lets you find certified companies easily and fast by offering you five different filter options to narrow down your search.



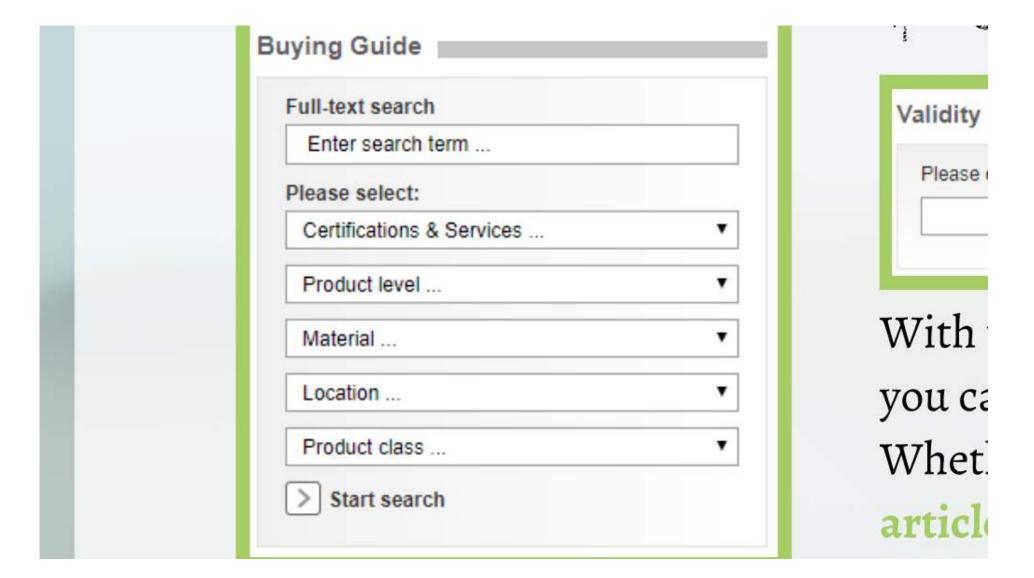


With the **OEKO-TEX® Validity Check** you can check a certification number: Whether it is still **valid** and what articles it certifies.



www.oeko-tex.com

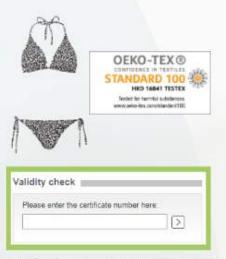




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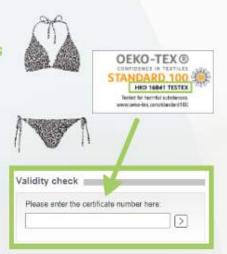
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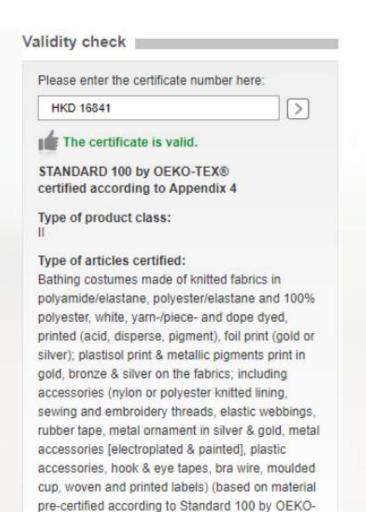
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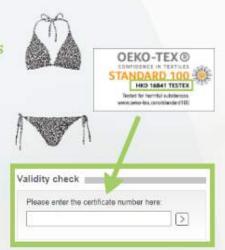


TEX)

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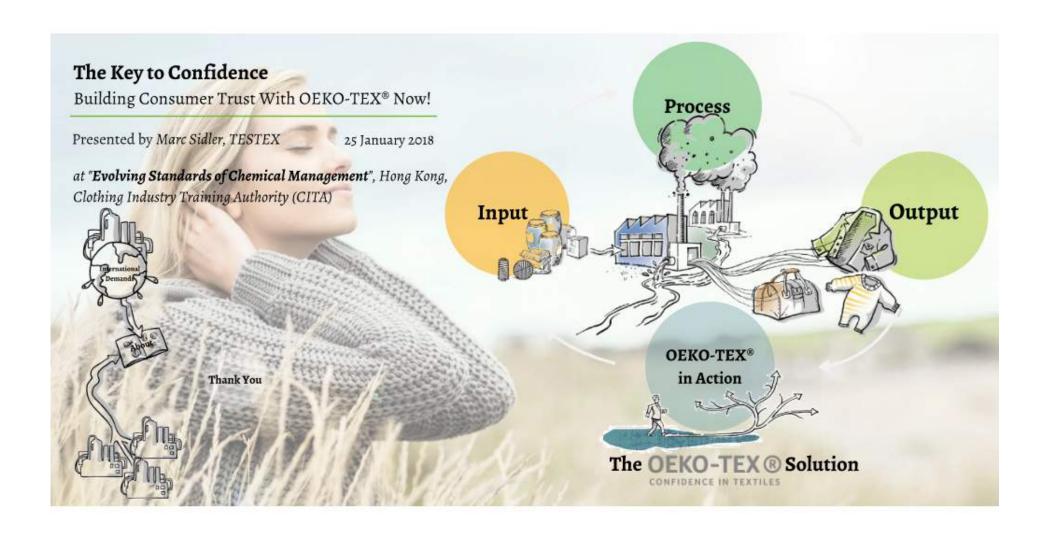
www.oeko-tex.com



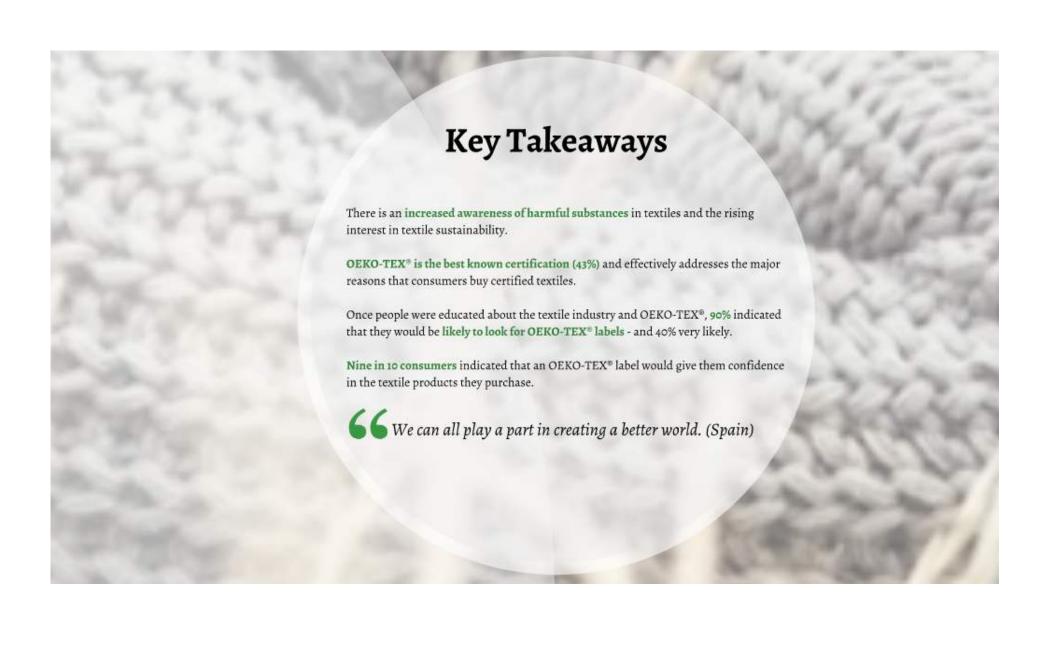














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