

Input Control: An Important Step Toward Sustainable Supply Chains



Textile Industry Challenges



Constantly changing laws globally



Factory output, from waste to product, is a result of incoming chemicals



Public focus on chemicals used in & released from manufacturing



Extensive water use & discharge



Contract manufacturing complicates information sharing



Soil & groundwater contamination

OEKO-TEX® Association

Hohenstein is a
founding member
& leading provider of
OEKO-TEX® services
that enable consumers
& companies to protect
our planet by making
responsible decisions



OEKO-TEX® Global Network

18

**Independent
textile/leather
research & test
institutes**

70

**Worldwide
representative
offices**

21,000

**Companies
working with
OEKO-TEX®**

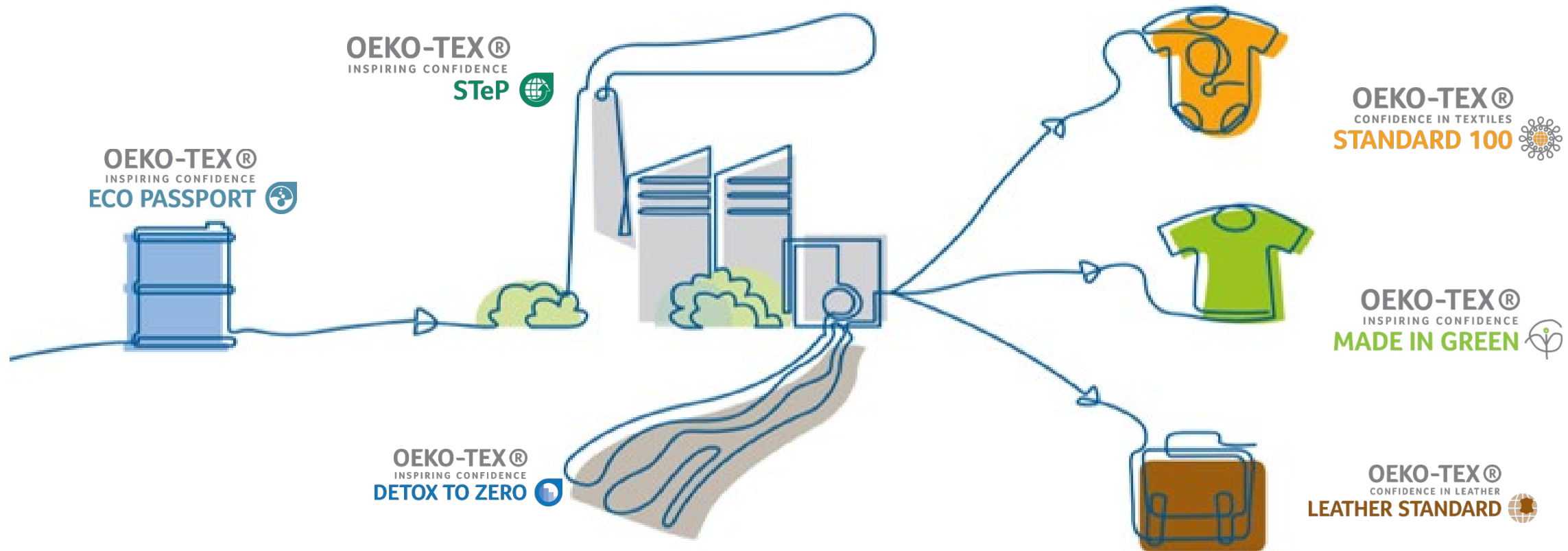
235,000

**Certificate
issues &
renewals**

Input Control

Process Control

Output Control



OEKO-TEX® System

Independent Certifications & Services for Sustainability & Product Stewardship Along the Supply Chain

OEKO-TEX®

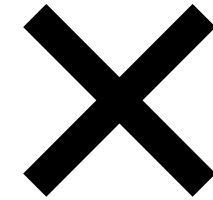
Globally Restricted
Substance List (RSL)

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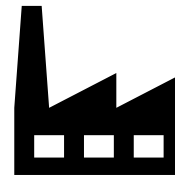
Annually updated



Legally banned &
controlled substances



Substances that may be
harmful to health



Quality assurance
systems in place



Biologically active
& flame-retardant
substances

OEKO-TEX® Test Criteria

Globally Harmonized Chemical Management

Substances that may be harmful to health

- polycyclic aromatic hydrocarbons (PAH)
- certain alkylphenols & alkylphenolethoxylates
- allergy-inducing dispersion dyes
- pesticides
- chlorinated benzenes & toluenes
- volatile components
- chlorinated phenols

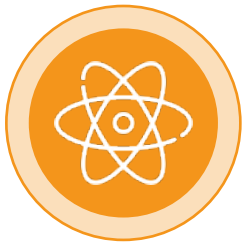
Legally banned & controlled substances

- certain azo colorants
- carcinogenic dyes
- pentachlorophenol
- formaldehyde
- phthalates
- PFOS & PFOA
- heavy metals
- banned flame retardants
- tin-organic compounds

Biologically active & flame-retardant substances

only ACP accepted for STANDARD 100 by OEKO-TEX® can apply

OEKO-TEX® Active Chemical Products



Active Chemical Products

Active chemical products may only be used if they have been deemed harmless by independent assessors for the OEKO-TEX® Association. STANDARD 100 by OEKO-TEX® certification is only possible after a successful assessment.



Biologically Active

- Textiles with a biologically active finish are not accepted in any of the 4 product classes
- Only permitted when the products have been individually assessed & accepted by the OEKO-TEX® expert committee



Flame-Retardant Textiles

- Flame-retardant textiles are generally not accepted in product classes I – III
- Must be individually assessed & accepted by the OEKO-TEX® expert committee for their specific purpose
- Flame retardants that are prohibited by law are banned in all 4 product classes

STANDARD 100 by OEKO-TEX®

Product Control & Consumer Safety

Input Control

OEKO-TEX®
INSPIRING CONFIDENCE
ECO PASSPORT

OEKO-TEX®
INSPIRING CONFIDENCE
STeP

OEKO-TEX®
INSPIRING CONFIDENCE
DETOX TO ZERO

Process Control

Output Control

OEKO-TEX®
CONFIDENCE IN TEXTILES
STANDARD 100

OEKO-TEX®
INSPIRING CONFIDENCE
MADE IN GREEN

OEKO-TEX®
CONFIDENCE IN LEATHER
LEATHER STANDARD



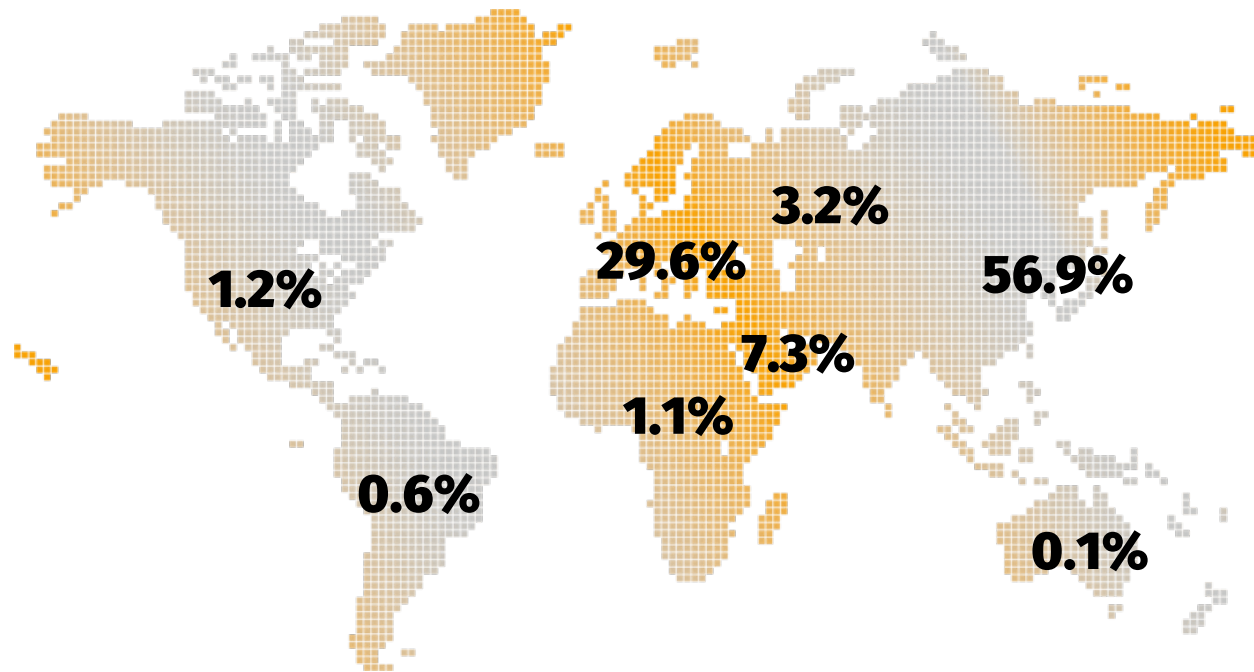
Exclude Harmful Substances from the Entire Textile Chain

- Total product or production assessment
- Facilitates & accelerates supplier relationships
- All components can be certified: fiber, yarn, fabric, linings, thread, labels, accessories (zippers, buttons, trims, embroidery, patches), finished goods
- Marketing value for B2B & B2C communications

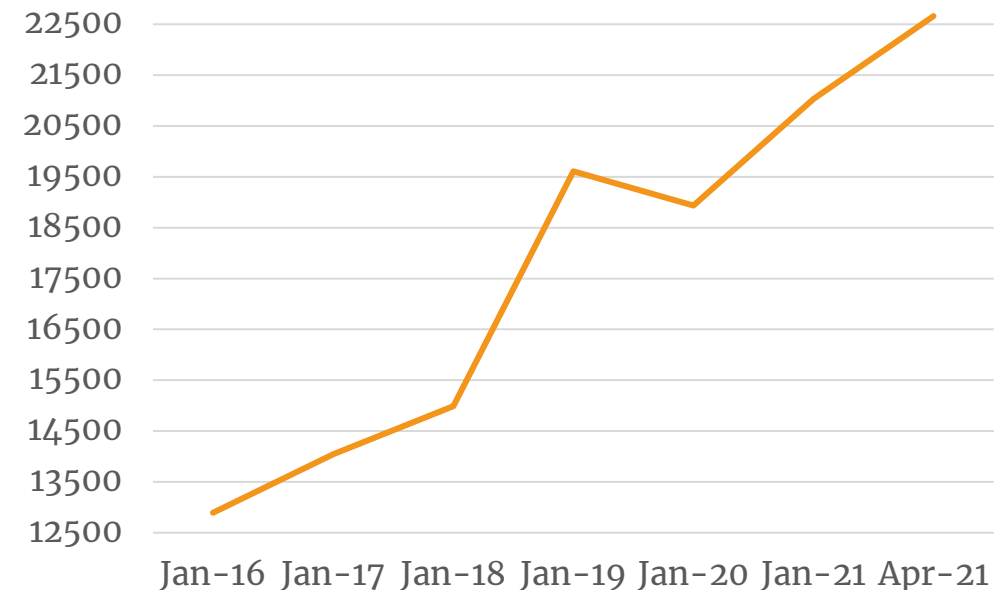


STANDARD 100 by OEKO-TEX®

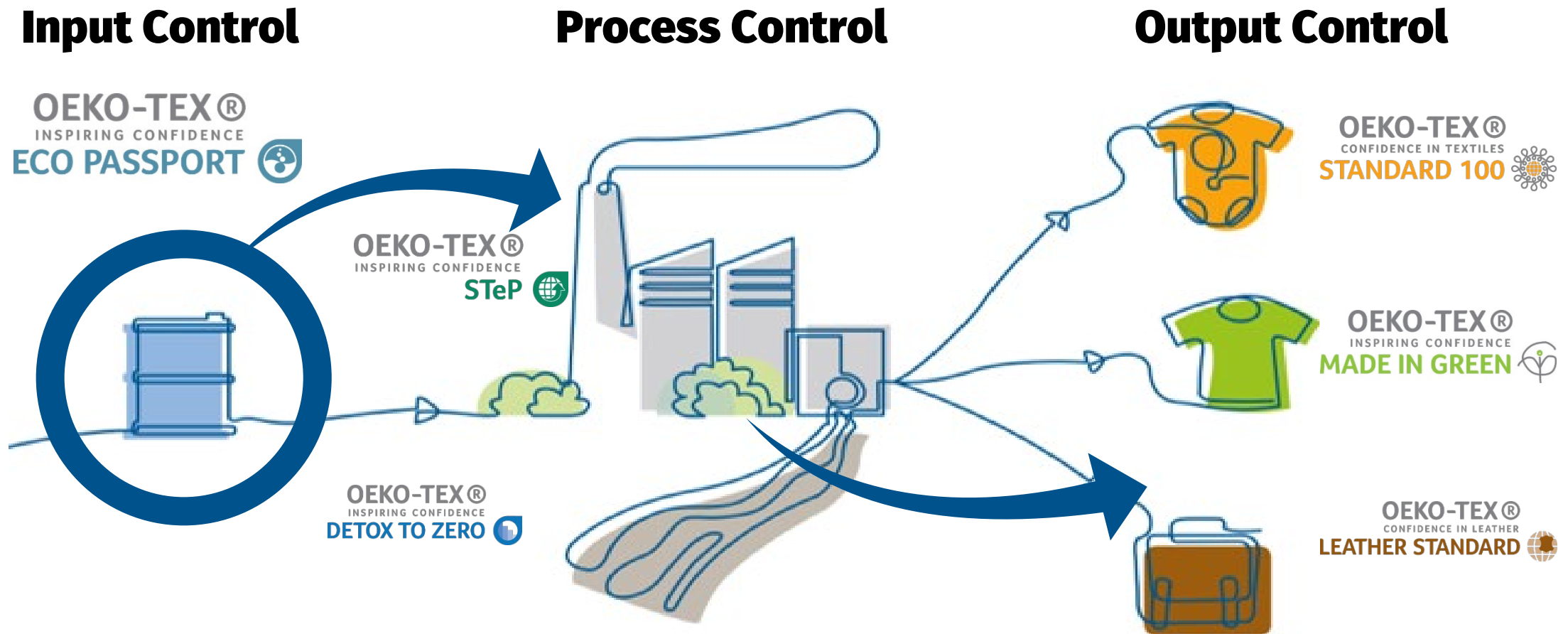
Worldwide Certificates (110 Countries)



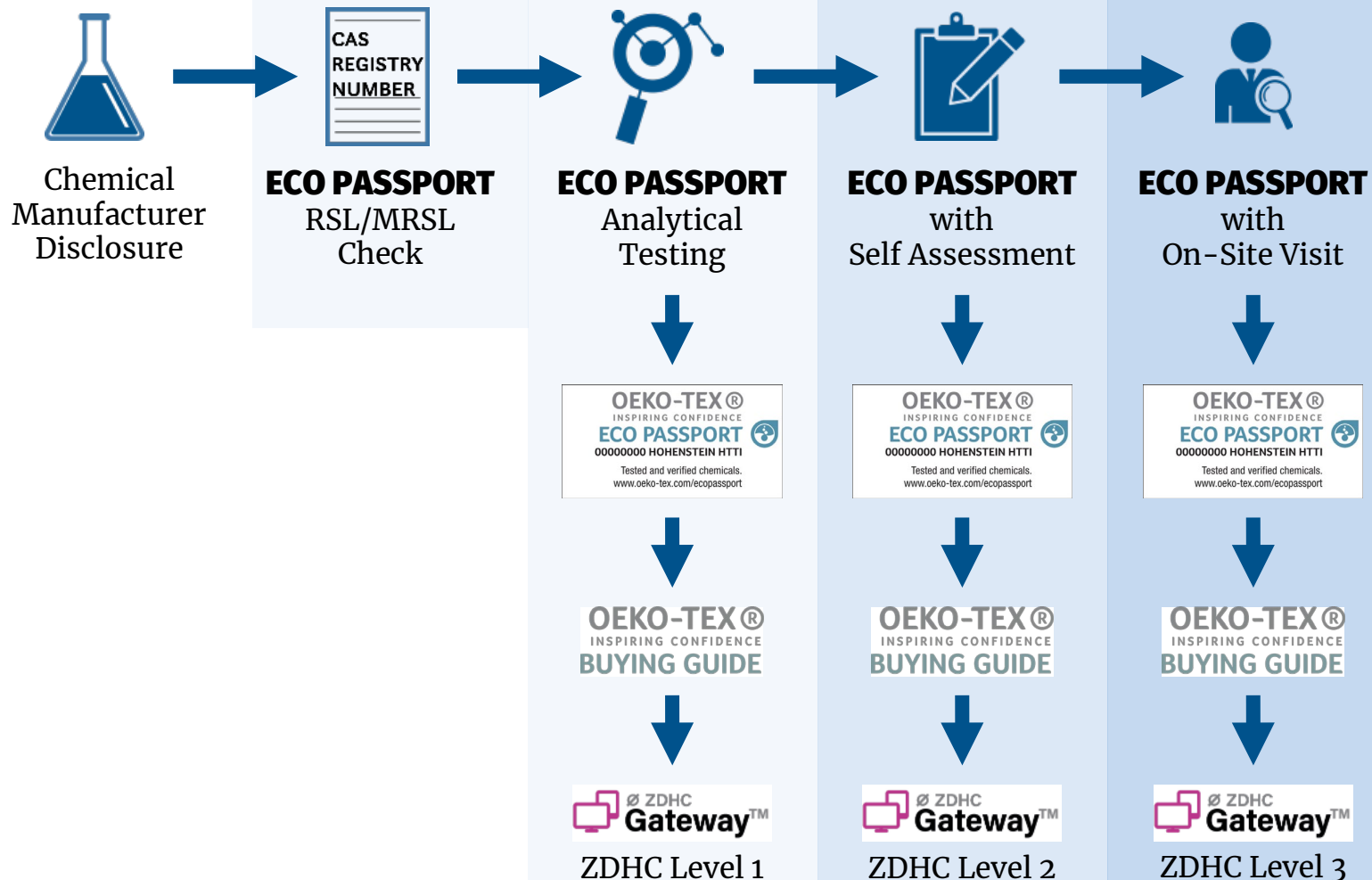
STANDARD 100 by OEKO-TEX®
Certificates



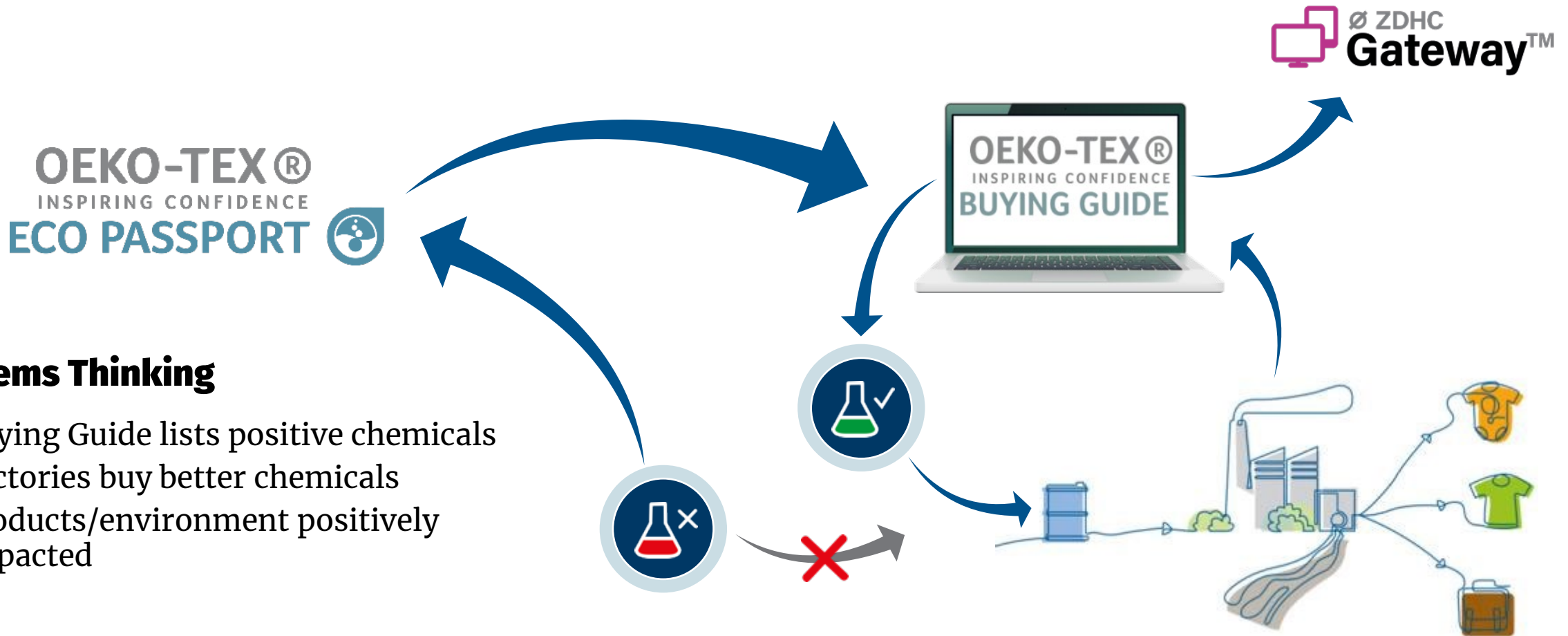
ECO PASSPORT Impacts Input Chemistry & Promotes the Use of Greener Chemicals



ECO PASSPORT by OEKO-TEX®

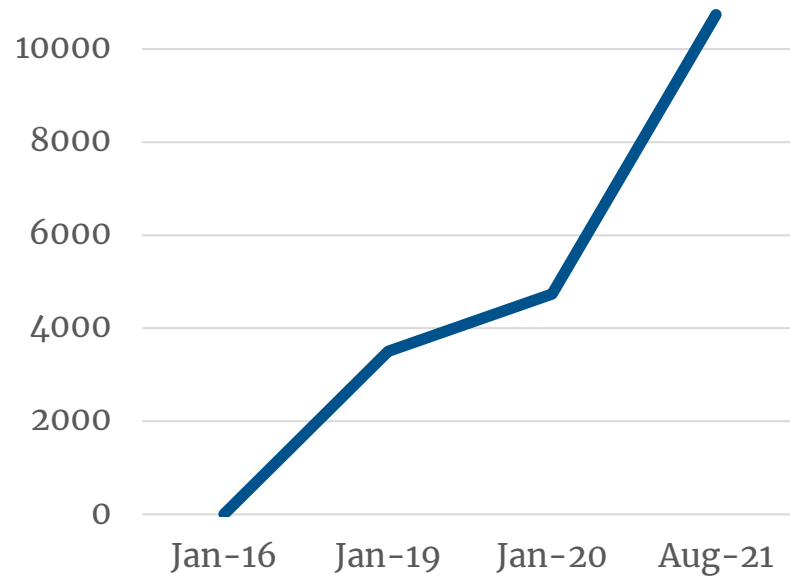


Promoting Better Chemistry, Collaboration & Pull

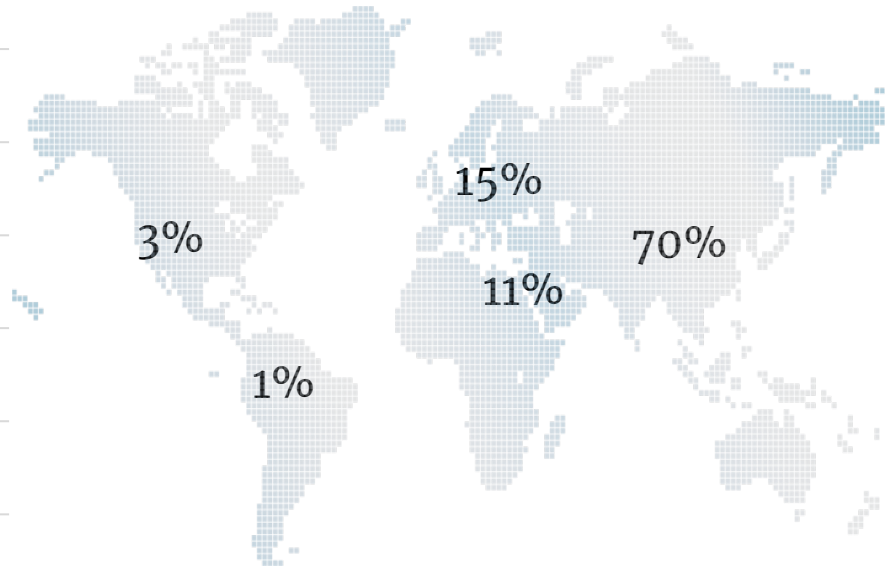


ECO PASSPORT by OEKO-TEX®

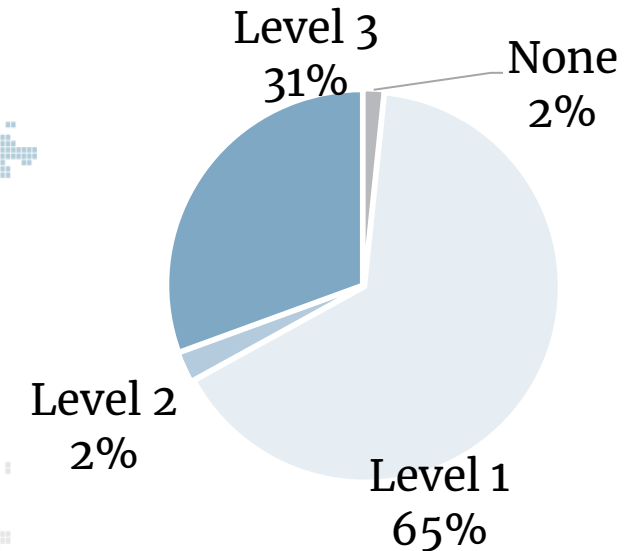
Certified Products



Worldwide Certificates



Certified Products x ZDHC



STeP by OEKO-TEX®

Transparent Control of Sustainable Production

Input Control

OEKO-TEX®
INSPIRING CONFIDENCE
STeP 

OEKO-TEX®
INSPIRING CONFIDENCE
ECO PASSPORT 



Process Control



Output Control

OEKO-TEX®
CONFIDENCE IN TEXTILES
STANDARD 100 



OEKO-TEX®
INSPIRING CONFIDENCE
MADE IN GREEN 



OEKO-TEX®
CONFIDENCE IN LEATHER
LEATHER STANDARD 



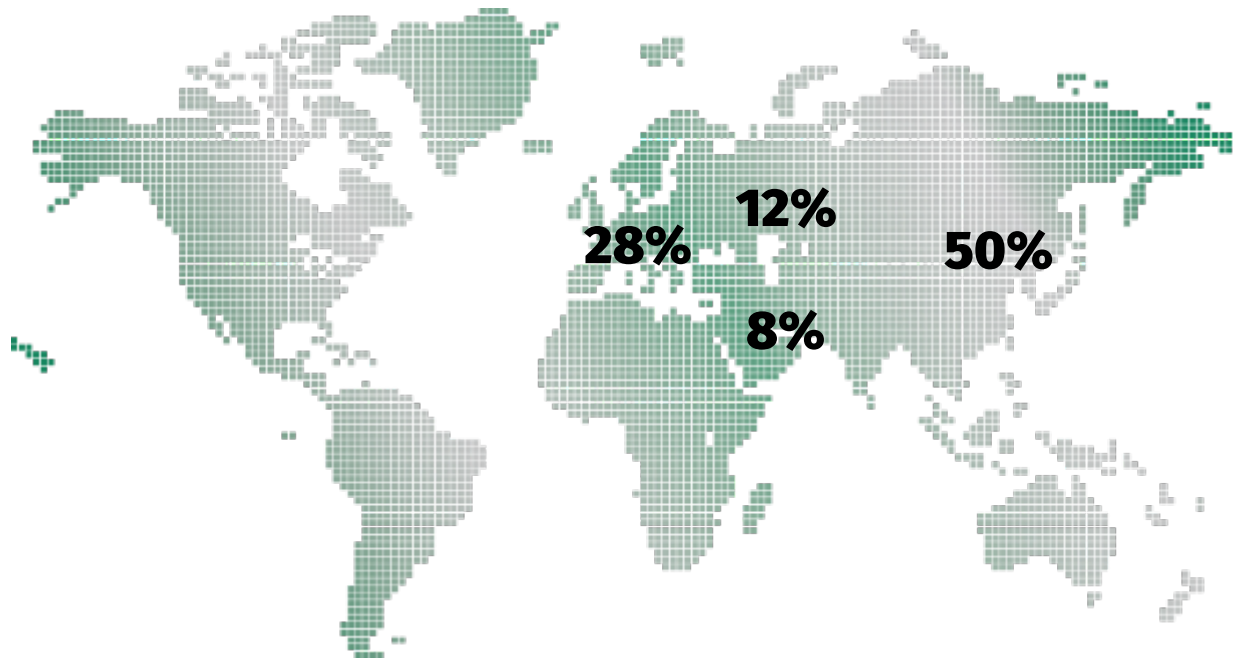
STeP by OEKO-TEX® = Sustainable Textile (& Leather) Production

- Considers aspects of sustainability
- Provides solutions for continuous improvement
- Protection of human rights & ethical working conditions
- Transparent assessment & comparable performance analysis
- Environmental protection & comprehensive chemical management

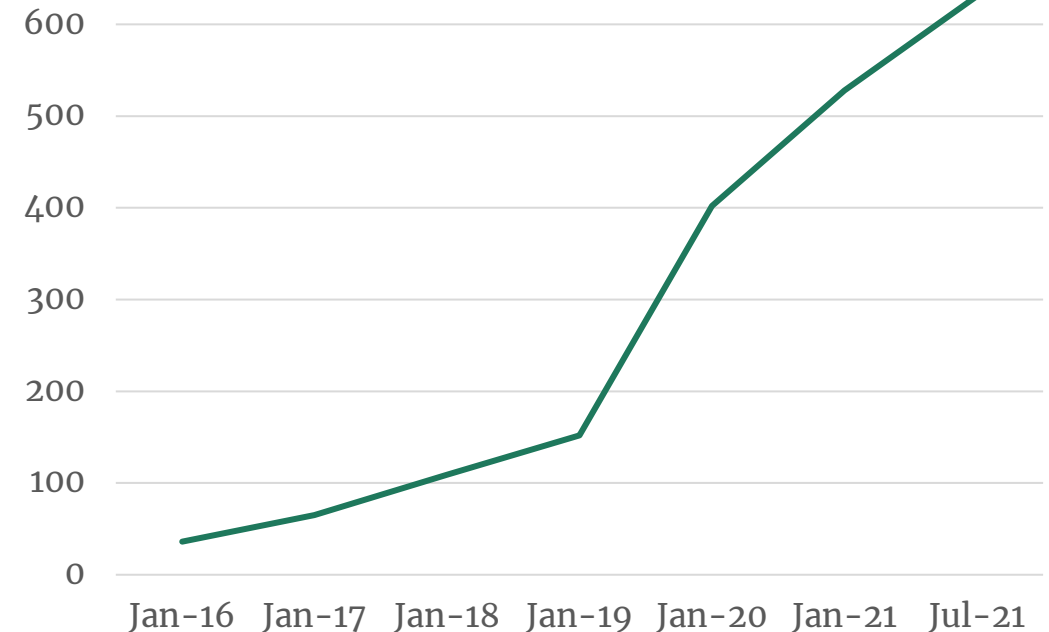


STeP by OEKO-TEX®

Worldwide Certificates (45 Countries)



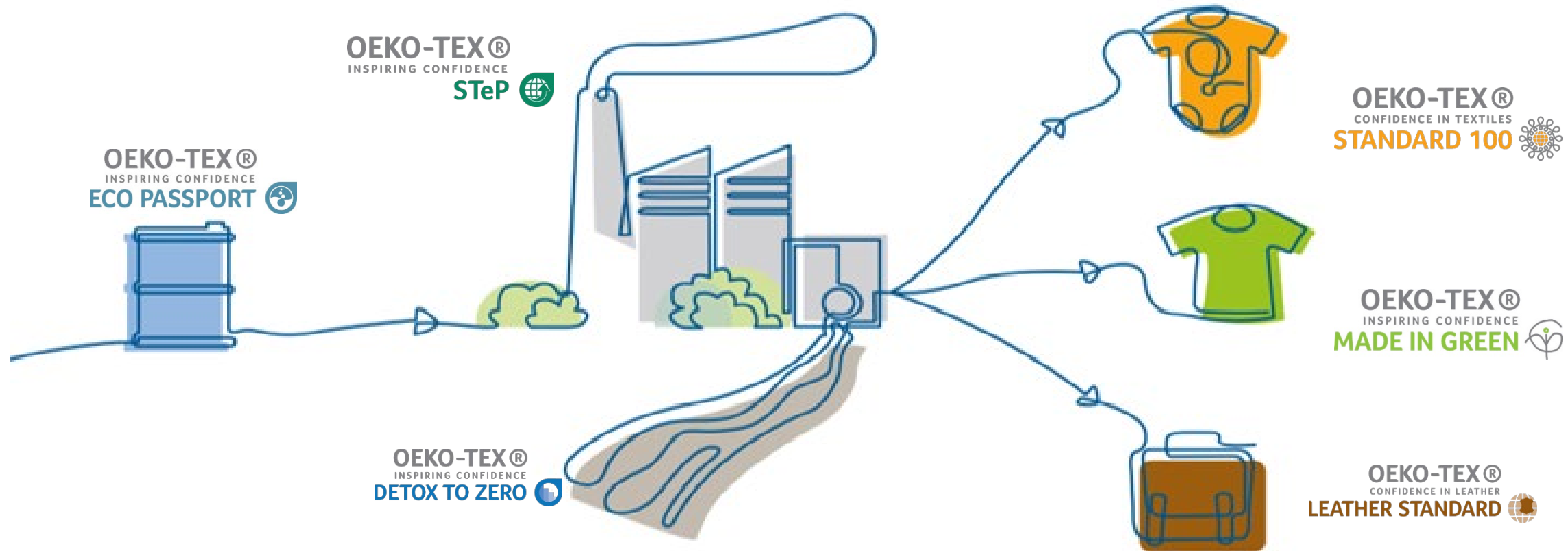
STeP by OEKO-TEX® Certificates



Input Control

Process Control

Output Control



OEKO-TEX® System

Independent Certifications & Services for Sustainability & Product Stewardship Along the Supply Chain

Brands & Retailers Use STANDARD 100 by OEKO-TEX®



JCPenney

KOHL'S



L.L.Bean

LANDS' END



HUDSON'S BAY

VICTORIA'S
SECRET

IZOD

VAN HEUSEN

TOMMY HILFINGER

EILEEN
FISHER



Calvin Klein



Gerber
Childrenswear



ESQUEL GROUP



bravado!
DESIGNS



Hanna Andersson

GILDAN®



BOLL & BRANCH™

HANES *brands* INC

PARACHUTE

Mast
Global

brooklinen

Thousands of STANDARD 100 by OEKO-TEX® Certified Suppliers (1000s)



OEKO-TEX® CertLink + Global Library

Collaboration with Texbase

Suppliers connect their OEKO-TEX® certificates to specific material data & product codes



Brands/retailers trace & confirm certified materials
+ use certifications in lieu of RSL testing



Hohenstein Helps Make Textiles...

...fresh

- Odor management
- Microbe protection
- Ease of care

...comfortable

- Quantitative comfort
- Breathability
- Moisture management
- Heating & cooling analysis
- Skin sensorial properties
- Range of motion

...safer

- Chemical testing
- Flammability testing

...sustainable

- GMO cotton testing
- Biodegradability
- Microfibers
- OEKO-TEX®

...better

- Comparative testing
- Supply chain communications
- Quality labels
- Marketing claim support

...fit

- 3D/4D scanning
- Sizing
- Fit analysis
- Pattern making
- Digitized materials
- 3D fitting

...work

- Protection against wind & rain
- Abrasion resistance & strength
- Reduced noise, enhanced visibility
- UV protection





***Hohenstein Worldwide Support
1000 Employees***

Thank you

Sam Shintay

Account Executive

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Hohenstein.US/OEKO-TEX

HOHENSTEIN●

Learn More: Hohenstein.US/OEKO-TEX