



duvqtex

CLEAN IMPACT **TEXTILES**™

SUSTAINABLE  
TEXTILE  
TECHNOLOGIES  
& INITIATIVES



# duvaltex

## Sustainability pioneer

**1995** Terratex: First recycled polyester fabrics for commercial interiors

**2001** Eco Intelligence®: Initiatives leading to positive impact on the environment and human health

**2003** Eco Intelligent® Polyester: The first antimony-free polyester for commercial interiors

**2005** Cradle to Cradle Gold: The first textile to be certified Cradle to Cradle Gold

**2011** Participation in the first successful closed-loop program in the office furniture industry

**2019** Clean Impact Textiles™: Industry-first, 100% post-consumer recycled biodegradable polyester

**2020** Clean Impact Textiles™: 100% post-consumer recycled polyester from ocean waste

Since 2000,  
Duvaltex has manufactured more than  
**100,000,000**  
yards of sustainable fabric



# CLEAN IMPACT TEXTILES™

Duvaltex CLEAN IMPACT TEXTILES™ are designed  
**with sustainability in mind.**

Our unique approach — focused on reusing discarded materials and reducing waste — is inspiring our industry to preserve our planet for future generations.

Duvaltex has always been a sustainability pioneer, having introduced numerous industry 'firsts' that inspired the contract industry.

Aiming to reduce as much as possible the impact of textile manufacturing on the environment, we innovate by transforming the way our products are sourced, manufactured and can be disposed of at the end of their useful life — which means offering our partners the industry's best.

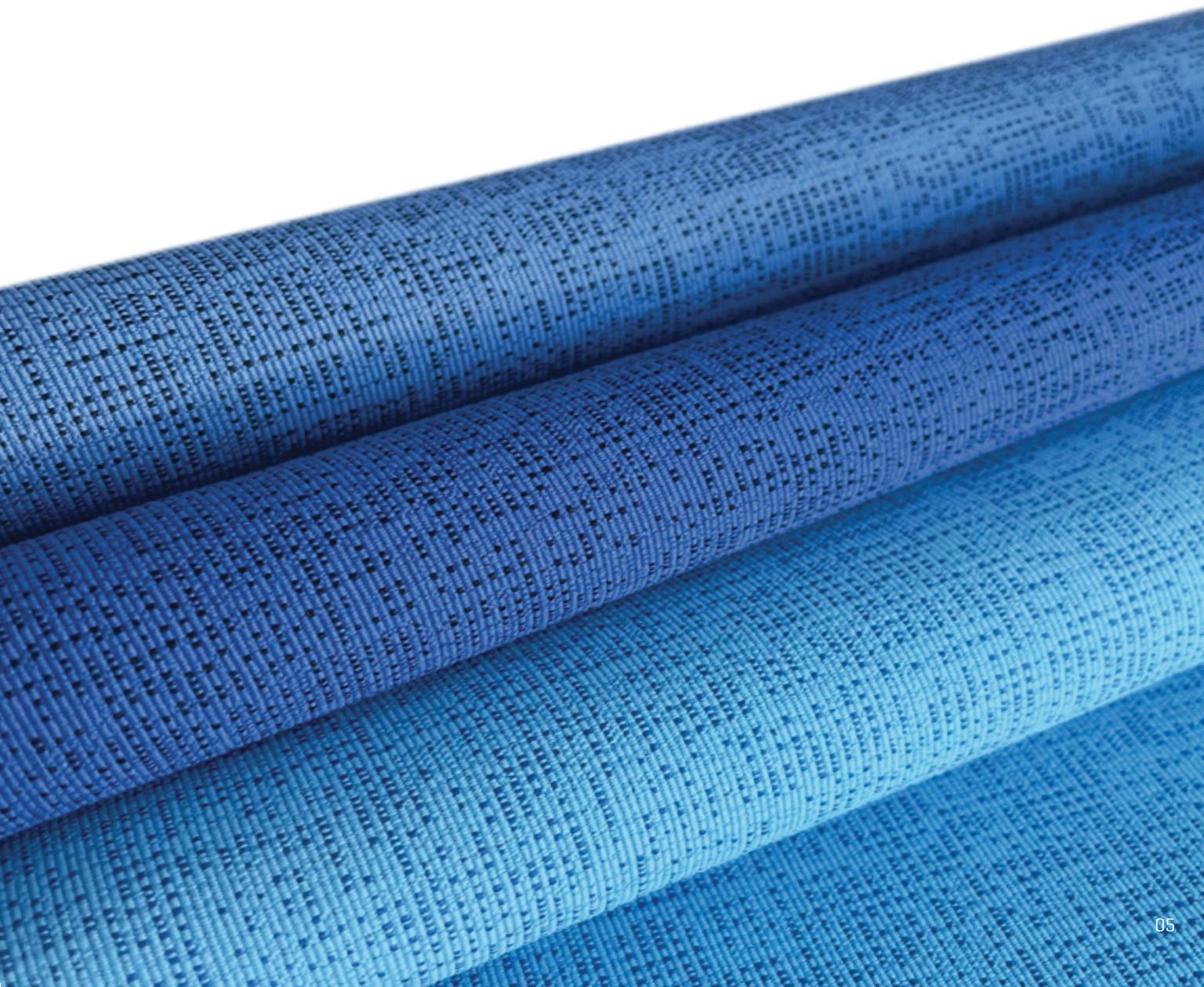
# INDUSTRY-FIRST 100% POST-CONSUMER RECYCLED BIODEGRADABLE POLYESTER

Redesigns thrown-away materials and transforms them into revolutionary biodegradable textiles\* – contributing to the circular economy and preserving our planet for future generations.

\*Rate and extent of biodegradation into elements found in nature is 91% after 1,278 days under ASTM D5511 (Anaerobic Biodegradation of Plastic Materials Under High Solids Anaerobic Digestion Conditions). The test was done with the same component (PET) polyester and biocatalyst additive. No evidence of further degradation.

# INDUSTRY-LEADING 100% POST-CONSUMER RECYCLED POLYESTER WITH OCEAN WASTE

Transforms ocean waste plastics into industry-leading sustainable textiles – taking post-consumer recycling further – helping clean our oceans and reducing plastic pollution worldwide.



The background of the entire image is a dense forest of tall, green evergreen trees, likely Douglas firs, arranged in a repeating pattern across the landscape.

INDUSTRY-FIRST  
100% POST-CONSUMER RECYCLED  
BIODEGRADABLE POLYESTER

# Did you know?

- 55 million pounds of synthetic plastic textiles are sent to landfills every day in the U.S. alone<sup>1</sup>
- Only 1% of all synthetic and plastic-based textiles are eventually fully recycled<sup>2</sup>



# CLEAN IMPACT TEXTILES™

**BIODEGRADABLE** CLEAN IMPACT TEXTILES™ address the daunting problem of how to deal with polyester fabric at the end of its useful life.

By redesigning throwaway materials into biodegradable textiles\*, we can solve the problem at its roots and help keep plastic out of our landfills.

We achieve this through the addition of a bio-catalyst in the yarn-extrusion process which enables anaerobic digestion in landfill.

1) Advancing Sustainable Materials Management 2013, U.S. Environmental Agency. TextilesExchange.org Preferred Fiber Market Report 2016

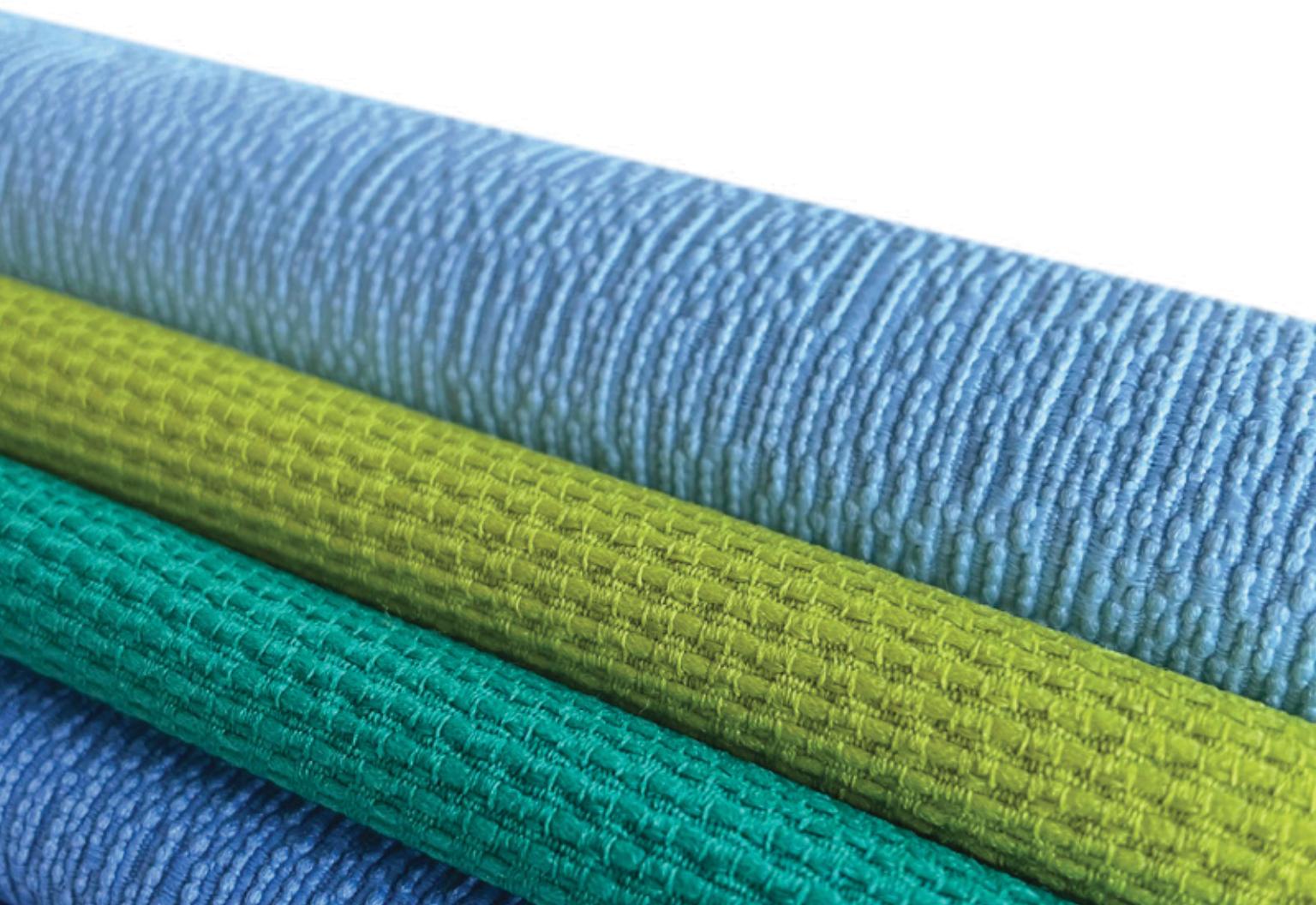
2) According to the U.S. Environmental Protection Agency, 15% of textiles are reused/recycled at the first cycle, 7% at the second cycle and 1% at the third cycle. This results in 99% of our textiles eventually being landfilled.

\*Rate and extent of biodegradation into elements found in nature is 91% after 1,278 days under ASTM D5511 (Anaerobic Biodegradation of Plastic Materials Under High Solids Anaerobic Digestion Conditions). The test was done with the same component (PET) polyester and biocatalyst additive. No evidence of further degradation.

INDUSTRY-FIRST **100% POST-CONSUMER RECYCLED BIODEGRADABLE POLYESTER**

# Design without compromise.

Available in yarn-dye to create dramatic multicolor looks and piece-dye for rich, strong color. Nothing is sacrificed in order to achieve the biodegradable benefit - not pattern, color or performance.



This game-changing technology enables polyester fabric to either be recycled, contributing to the circular economy, or sent to landfill at the end of its useful life.

If sent to landfill, this unique technology will enable fabric biodegradation under anaerobic conditions in 1,278 days – a leave-no-trace solution.

## ECO-EFFICIENCY AT ITS BEST!

- Biodegradable\* in landfill after 1,278 days (tested under ASTM D5511)
- Back to the biosphere as fast as natural wool fabric
- Designed and manufactured for recyclability
- Made with sustainable manufacturing practices
- Meets or exceeds all ACT performance guidelines
- NSF/ANSI 336 – Sustainability assessment for commercial furnishings fabric, and carries the Facts Gold certification mark
- Full color capabilities & novelty yarns
- Could contribute to LEED points for recycled content and materials and resources



BIODEGRADABLE CLEAN IMPACT TEXTILES™



Sent to landfill



Fabric biodegradation



Biosphere restoration

\*Rate and extent of biodegradation into elements found in nature is 91% after 1,278 days under ASTM D5511 (Anaerobic Biodegradation of Plastic Materials Under High Solids Anaerobic Digestion Conditions). The test was done with the same component (PET) polyester and biocatalyst additive. No evidence of further degradation.



**100% POST-CONSUMER RECYCLED  
POLYESTER WITH OCEAN WASTE**  
**SEAQUAL**  
INITIATIVE

# Did you know?

- Only 14% of plastic packaging is collected for recycling globally<sup>3</sup>
- Every year, more than 8 million metric tons of plastics enter our oceans<sup>4</sup>
- By 2050, there will be more plastics in the sea than fish<sup>5</sup>



# CLEAN IMPACT TEXTILES™

OCEAN WASTE CLEAN IMPACT TEXTILES™  
tackle one of the most pressing environmental  
issues we face today: pollution of oceans by plastics.

By partnering with the SEAQUAL INITIATIVE, we can  
transform ocean waste into amazing textiles.

This innovative sourcing approach makes us part  
of a collective effort to clean our oceans and reduce  
plastic pollution worldwide.

- 3) Ellen MacArthur Foundation. The New Plastics Economy: Catalysing Action, January 2017, Page 16  
[https://www.ellenmacarthurfoundation.org/assets/downloads/New-Plastics-Economy\\_Catalysing-Action\\_13-1-17.pdf](https://www.ellenmacarthurfoundation.org/assets/downloads/New-Plastics-Economy_Catalysing-Action_13-1-17.pdf)
- 4) Jambeck et al. Science: Plastic Waste Inputs from Land Into the Ocean, Feb. 13, 2015, pp. 768-771
- 5) World Economic Forum. The New Plastics Economy - Rethinking the Future of Plastics, January 2016, Page 14  
[http://www3.weforum.org/docs/WEF\\_The\\_New\\_Plastics\\_Economy.pdf](http://www3.weforum.org/docs/WEF_The_New_Plastics_Economy.pdf)

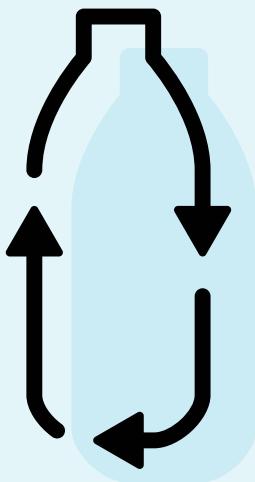
**100% POST-CONSUMER RECYCLED POLYESTER WITH OCEAN WASTE**

**SEAQUAL  
INITIATIVE**

The SEAQUAL INITIATIVE collaborates with fishermen, NGOs, researchers, scientists, authorities and private stakeholders to clean our oceans and its shores of ocean waste plastics.

- For every pound of CLEAN IMPACT TEXTILES™ Ocean Waste fabric produced, up to half a pound of marine waste is removed from the ocean
- Designed and manufactured for recyclability
- Full traceability throughout the supply chain
- Made with sustainable manufacturing practices
- Meets or exceeds all ACT performance guidelines
- NSF/ANSI 336 – Sustainability Assessment for Commercial Furnishings Fabric, and carries the Facts Gold certification mark
- Full color capabilities & novelty yarns
- Could contribute to LEED points for recycled content and materials and resources





# UPCYCLING OCEAN WASTE PLASTIC

The waste collected is categorized, separated and cleaned. Plastics are processed and upcycled into polymer to be used as yarn, then transformed into industry-leading sustainable textiles.



OCEAN WASTE CLEAN IMPACT TEXTILES™

Designed for recyclability

duvaltex

**Always One Step Ahead.  
Pushing our Industry  
Forward.**



The background of the slide is a photograph of a coastal landscape. In the foreground, there's a body of water with small waves. In the middle ground, several large, dark rock formations are scattered across the sea. Further back, a range of hills or mountains is visible under a clear, light blue sky.

As pioneers in advanced and sustainable textiles, we continue to challenge the status quo in developing and combining leading-edge technologies to create innovations by enhancing people's wellbeing and safety.

We have the resources, talent and know-how to enable each of our partners to achieve success in their creative process.



Every design decision we make has an impact

# BE A VOICE OF CHANGE

The linear economy no longer makes any sense...  
It's our responsibility to choose the material we create with.

Visit [duvaltex.com/cleanimpact](https://duvaltex.com/cleanimpact) for additional information,  
product, and partner details.

**duvaltex**

CLEAN IMPACT **TEXTILES**<sup>TM</sup>  
SUSTAINABLE TEXTILE TECHNOLOGIES & INITIATIVES

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