GOING GREEN BY FRIEDRICH

Level 1

RETeX+RC: recycled polyester from post-consumer PET

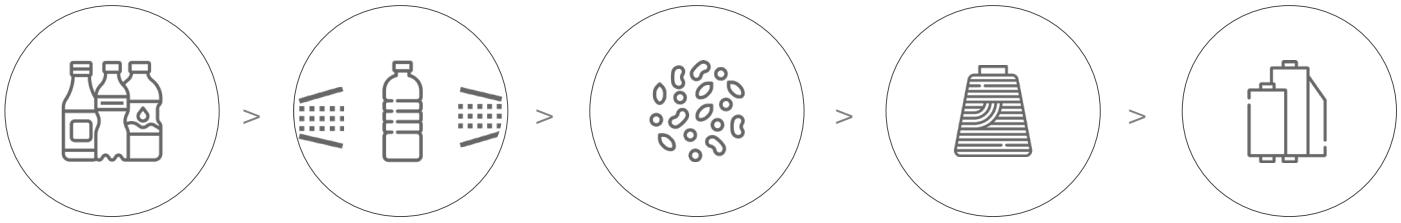
Warp-knitted textiles from post-consumer PET bottles recycling - conserving fossil resources, promoting a more sustainable textile industry

High-quality polyester yarns are the basis of our innovative textile solutions. However, the production of polyester requires valuable fossil resources such as crude oil and natural gas.

In order to conserve fossil resources, we have been using regenerated yarn made from recycled raw materials to produce our textiles since 2010. This also includes PET (polyethylene terephthalate), a plastic from the polyester family.
PET combines many positive application properties, but above all it is one thing: **completely recyclable**.

Our RETeX+RC product line is made from recycled PET, collected and recycled exclusively in the EU.

How does recycling of post-consumer PET bottles work?



By manufacturing RETeX+ products, we are actively contributing to a more sustainable textile industry. The reason: Every ton of recycled PET reduces CO_2 emissions by 3 tons. This is comparable to the annual emissions of an average car! In addition, the production of articles made from recycled PET consumes around 50 % less energy. In this way, we reduce harmful greenhouse gas emissions and conserve fossil resources.

More information:

In Germany, almost 100 % of single-use deposit PET bottles are currently collected and recycled[1]. Across Europe, the PET collection rate increased to 60 % by 2022[2].

[1] study „Volume and utilisation of PET beverage bottles in Germany in 2021“ conducted by Forum PET

[2] study on the PET market in Europe, 2024, in collaboration with ICIS, Plastics Recyclers Europe, Petcore Europe, UNESDA and NMWE

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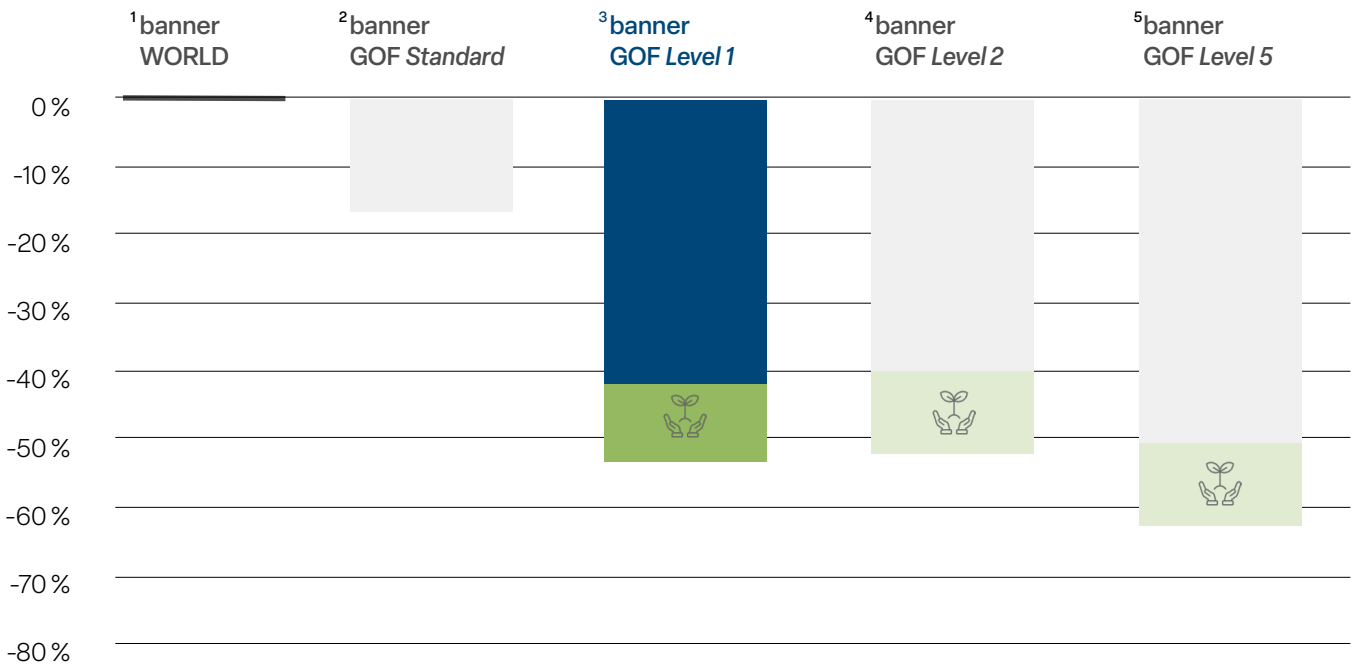
CO_2 savings compared

Calculations are based on the standard values of polyester in conjunction with current data on the global energy mix compared to primary energy consumption in Germany;
data available: https://www.worldenergy.org/ / https://ourworldindata.org/energy-mix

Further key points of analysis for banner GOF: GHG Scope 1 - 3, Institute EDENBERG, supplier information, CO_2 compensation, end-of-life (EoL)



By using regenerated yarn from post-consumer PET bottle recycling, fossil resources are conserved in the production of new warp-knitted textiles and energy consumption as well as emissions are reduced.

Contact us for more information.

[1] vPET, energy mix World incl. transportation and EoL
[2] vPET, energy mix GOF, GHG Scope 1 - 3, Institute EDENBERG, supplier information, EoL
[3] **rPET, energy mix GOF, GHG Scope 1 - 3, Institute EDENBERG, supplier information, CO_2 compensation, EoL**
[4] SEAQUAL®-PET, energy mix GOF, GHG Scope 1 - 3, Institute EDENBERG, supplier information, CO_2 compensation, EoL
[5] nPET, energy mix GOF, GHG Scope 1 - 3, Institute EDENBERG, supplier information, CO_2 compensation, no EoL

Explanations:

GHG Scope 1 - 3	Greenhouse Gas Protocol, recording direct and indirect emissions over the entire product cycle
Institute EDENBERG	Edenberg Nachhaltigkeitsberatung UG under the management of Prof. Dr. Bastian Schröter
CO_2 compensation	reforestation projects with PLANT-MY-TREE®
energy mix GOF	energy mix Germany incl. renewable energies and Going Green initiatives by GOF
nPET	ReNew™ PET (in vPET quality)

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