

For sustainable staple fiber production

EvoSteam staple fiber process from Oerlikon Neumag bluesign® verified

Neumünster, Germany - 19 November 2023 - The new polyester staple fiber process EvoSteam from Oerlikon Neumag receives the bluesign® test label "bluesign® VERIFIED DATA". For this, the innovative, energy and resource-saving EvoSteam process had to undergo strict data verification. It impressed with savings in energy, water and raw material consumption, as well as a reduction in operating costs (OPEX) and the CO2 footprint.

All relevant process data was compared with the conventional drawing process and analysed. The results are impressive: "I am delighted that, following intensive development work on the new EvoSteam process, we have been able to reduce the total energy consumption for steam and electricity by up to 8%. In addition to reducing production waste by up to 50%, we expect to save around 3.2 million litres of water per year. For the operators of our plants, these are considerable cost savings while at the same time reducing impact on the environment by reducing the CO2 footprint by around 6%," says Dr Friedrich Lennemann, Head of Technology Development at Oerlikon Neumag, summarising the result. By receiving the bluesign® VERIFIED DATA label, Oerlikon Neumag is not only emphasising its commitment to sustainability. All polyester staple fibers produced with the EvoSteam process will actively contribute to the bluesign® SYSTEM in the future.

bluesign® VERIFIED DATA

For the EvoSteam process, Oerlikon Neumag received the bluesign® VERIFIED DATA label for the first time. The label includes the verification of impact data such as water, spinning preparations, thermal and electrical energy as well as the CO2 footprint by means of a plausibility check of the supporting records for the EvoSteam draw line, the central element in the EvoSteam process. The reported data was assessed as 2.1 - fair - in accordance with the defined methodology.

EvoSteam process for sustainable staple fiber production

The EvoSteam process was presented to the global public for the first time at ITMA 2023 in Milan. Visitors to the trade fair spoke of a major development step, as the EvoSteam process dispenses with liquid baths. The function of the immersion bath is assumed by a carefully-coordinated setup of godets and pulsed spray nozzles. With this, the moisture is metered precisely and added according to the needs of the process. This completely dispensing with liquid baths generates significant savings in terms of water, energy and finishes, while also increasing occupational safety and cleanliness at the production line.

Caption:



The revolutionary new Oerlikon Neumag EvoSteam staple fiber process is bluesign® verified.

About Oerlikon Polymer Processing Solutions Division

Oerlikon is a leading provider of comprehensive polymer processing plant solutions and high-precision flow control component equipment. The division provides polycondensation and extrusion lines, manmade fiber filament spinning solutions, texturing machines, BCF and staple fiber lines as well as nonwoven production systems. It also develops and produces advanced and innovative hot runner systems and multi-cavity solutions for the injection molding industry. Its hot runner solutions serve business sectors, including automotive, logistics, environmental, industrial applications, consumer goods, beauty and personal care and medical. Moreover, Oerlikon offers customized gear metering pumps for the textile, automotive, chemical, dyes and lacquers industries. Its engineering competence leads to sustainable and energy-efficient solutions for the entire polymer processing value chain with a circular economy approach.

Oerlikon Polymer Processing Solutions Division serves customers through its technology brands – Oerlikon Barmag, Oerlikon Neumag, Oerlikon Nonwoven and Oerlikon HRSflow – in around 120 countries with production, sales, distribution and service organizations.

The division is part of the publicly listed Oerlikon Group, headquartered in Switzerland, which has more than 13 000 employees and generated sales of CHF 2.9 billion in 2022.

For further information: www.oerlikon.com/polymer-processing

About bluesign technologies ag

The bluesign® SYSTEM is the solution for sustainable textile production. It eliminates harmful substances right at the start of the manufacturing process and sets and monitors standards for environmentally friendly and safe production. This not only ensures that the final textile product fulfils the very strict global safety requirements, but also gives consumers the confidence to buy responsible products.

bluesign technologies ag was founded in 2000. Since then, the bluesign® SYSTEM has been adopted by the world's leading textile and accessory manufacturers. Various major key players in the chemical and machinery industries rely on the bluesign® SYSTEM, and well-known brands in the outdoor, sportswear and fashion industries trust in bluesign's comprehensive knowledge and services.

Further information about the bluesign® SYSTEM can be found at www.bluesign.com.



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