

## Press Release

Oerlikon Nonwoven at the INDEX in Geneva

# Focus on nonwoven products: the perfect manufacturing process for every application

Neumünster, September 3, 2021 – „Your reliable partner in the nonwoven industry“ – the slogan speaks for itself: Oerlikon Nonwoven is exhibiting at the world's leading nonwovens trade fair – the INDEX in Geneva, Switzerland (October 19-22, 2021) – with one of the market's broadest portfolios. The Neumünster-based systems constructor will be focusing on market- and customer-oriented system solutions for filtration, hygiene, medical, geotextile and other industrial applications. Trade fair visitors can delve deep into the company's comprehensive product and process know-how both live at trade fair stand no. 2314 and via the INDEX online platform.

### Filtration: leading competences from Neumünster

Unique and highly-sophisticated nonwovens for filtration, insulation and sorption applications can be simply and efficiently manufactured thanks to Oerlikon Nonwoven's meltblown technology.

The polymers used to produce the filter media and membranes are as diverse as their applications. The spectrum ranges from classical polyolefins (PP, PE), PET, PLA, PBT and PA all the way through to special plastics such as PPS and TPU. All these and other raw materials can be reliably processed using the Oerlikon Nonwoven meltblown procedures.

And the ecuTEC+ electro-charging unit electrostatically charges filter media in order to further increase filter efficiency. It distinguishes itself from other concepts currently available on the market as a result of its extreme flexibility. Users can choose from numerous possible variations and hence set the optimum charge intensity for their respective filter applications.

### Comprehensive spunbond portfolio – always the right solution

For industrial nonwovens, Oerlikon Nonwoven systems are capable of high production capacities and yields with simultaneously low energy consumption. To this end, geotextiles made from polypropylene or polyester can be efficiently manufactured with running meter weights of up to 400 g/m<sup>2</sup> and filament titers of up to 9 dtex, for example. And Oerlikon Nonwoven also offers specialized spunbond processes for producing nonwoven substrates for roofing underlays (PP or PET spunbonds) and so-called bitumen roofing substrates (needled PET spunbonds) for bitumen roofing membranes.

Furthermore, spunbond products are also becoming increasingly important in filtration applications – both as backing materials for filter media and as the filter media themselves. A flexible nonwoven

structure permits the inclusion of customer-specific requirements for various functions. It is Oerlikon Nonwoven's many years of core-sheath bi-component experience in particular that enable the creation of completely new nonwoven structures and hence the incorporation of various functions in a single material. The core-sheath bi-component spinning process permits various combined fiber cross-sections and also simultaneously different fibers to be produced from a single or different polymers. The spectrum ranges from core-sheath and side-by-side bi-component filaments, splittable fibers all the way through to so-called mixed fibers.

### **QSR: attractive spunmelt systems for the hygiene and medical market**

For manufacturing hygiene and medical nonwovens, the QSR (Quality Sized Right) technology offers a financially-attractive solution for producing these highly-diverse spunbond and meltblown composites (SSMMS, SMMS, SSS, etc.) in accordance with globally-accepted standards. As a result of intensive collaborations and partnerships, close-knit quality assurance measures and extensive interaction with its technology partners, Oerlikon Nonwoven is able to equip this type of system with unique features that enable producers to distinguish themselves within their respective markets with special nonwoven properties such as higher volumes, softness and customer-specific embossed patterns, for example.

### **First-class wipes using our Phantom technology**

With its Phantom platform, Oerlikon Nonwoven offers an alternative co-form technology for manufacturing various wet wipes from pulp and polymer fibers. Here, the spunmelt and airlaid processes are combined in a manner that perfectly unites the properties of the starting materials. The material mix can comprise up to 90% cellulose fibers. Alternatively, cotton or synthetic fibers can also be added.

Compared to processes such as classical spunlace (hydroentangled carded nonwovens) produced to date, the Phantom technology offers ecological, performance and cost advantages. Dispensing with hydroentanglement renders subsequent drying of the material redundant. Product parameters, such as softness, tenacity, dirt absorption and liquid absorption, can be optimally set. The Phantom technology enables the manufacture of both flexible and absorbent structures and highly-textured materials.

### **Airlaid technology for sustainable nonwovens**

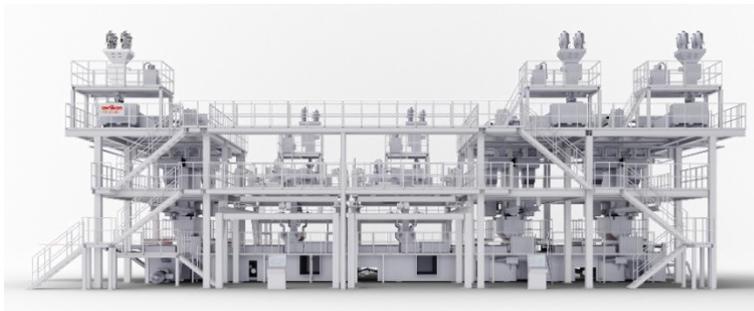
Pulp or cellulose fibers as raw material for manufacturing nonwovens are currently virtually unrivaled with regards to sustainability and environmental compatibility. The Oerlikon Nonwoven airlaid process is the ideal solution for processing this raw material into high-end products for a wide range of applications. Today, there is huge demand for manufacturing solutions for high-quality, lightweight airlaid nonwovens with economically-attractive production speeds and system throughputs. Here, the patented Oerlikon Nonwoven formation process is setting standards – for homogeneous fiber laying and superb evenness even for nonwovens with low running meter weights. Furthermore, it permits the homogeneous mixing of the most diverse raw materials, including pulp, short- and long-staple natural and

manmade fibers (up to 20 mm) and powders, as well as the utilization and combination of the most diverse mechanical, thermal and chemical tangling methods for creating the requisite product properties.

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**Caption:** Oerlikon Nonwoven double-beam meltblown system – here with integrated ecuTEC+ for electrostatically-charging the filter media.



**Caption:** The Oerlikon Nonwoven OSR spunmelt technology, a highly competitive solution.



**Caption:** Also ideal for use in recycling – the Oerlikon Nonwoven airlaid technology.



**For further information:**

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**About Oerlikon**

Oerlikon (SIX: OERL) is a global innovation powerhouse for surface engineering, polymer processing and additive manufacturing. Its solutions and comprehensive services, together with its advanced materials, improve and maximize the performance, function, design and sustainability of its customers' products and manufacturing processes in key industries. Pioneering technology for decades, everything the company invents and does is guided by its passion to support its customers' goals and foster a sustainable world. Headquartered in Pfäffikon, Switzerland, the Group operates its business in two divisions – Surface Solutions and Polymer Processing Solutions. It has a global footprint of more than 10,600 employees at 179 locations in 37 countries and generated sales of CHF 2.3 billion in 2020.

For more information: [www.oerlikon.com](http://www.oerlikon.com)

**About the Oerlikon Polymer Processing Solutions division**

With its Oerlikon Barmag, Oerlikon Neumag, Oerlikon Nonwoven and Oerlikon HRSflow brands, the Oerlikon Polymer Processing Solutions Division is focusing on manmade fibers plant engineering and flow control equipment solutions. Oerlikon is one of the leading providers of manmade fiber filament spinning systems, texturing machines, BCF systems, staple fiber systems and solutions for the production of nonwovens and – as a service provider – offers engineering solutions for the entire textile value added chain. Furthermore, Oerlikon has a high precision flow control components business that offers a large selection of gear metering pumps for the textile and other industries, including the automotive, chemical and paint markets. With Oerlikon HRSflow the division develops innovative hot runner systems for the polymer processing industry. In cooperation with Oerlikon Balzers, highly-efficient and effective coating solutions are offered here from a single source.

As a future-oriented company, the research and development at this division of the Oerlikon Group is driven by energy efficiency and sustainable technologies (e-save). With its range of polycondensation and extrusion systems and their key components, the company caters to the entire manufacturing process – from the monomer all the way through to the textured yarn and other innovative polymer processed materials and applications. The product portfolio is rounded off with automation and Industrie 4.0 solutions.

The primary markets for the product portfolio of Oerlikon Barmag are in Asia, especially in China, India and Turkey, and – for those of Oerlikon Neumag and Oerlikon Nonwoven – in the USA, Asia, Turkey and Europe. Oerlikon HRSflow is particularly at home in the core automotive markets. These include Germany, China, Korea and Brazil. Worldwide, the division – with more than 4,500 employees – has a presence in 120 countries with production, sales and distribution and service organizations. At the Research and Development centers in Remscheid, Neumünster (Germany), San Polo di Piave, Treviso (Italy) and Suzhou (China), highly-qualified engineers, technologists and technicians develop innovative and technologically leading products for tomorrow's world.

For more information: [www.oerlikon.com/polymer-processing](http://www.oerlikon.com/polymer-processing)