

Press Release

Oerlikon Nonwoven participates at the FILTECH in Cologne for the first time

Outstanding meltblown and spunbond technology for the production of synthetic filter media

Neumünster, January 27, 2022 – “We love building systems, machines and components that sustainably manufacture the materials your successful products are made of”, promises Dr. Ingo Mählmann, Head of Sales at Oerlikon Nonwoven. This claim expresses the company’s passion for continually improving its technology and the strong partnerships with its customers. Oerlikon Nonwoven is now – for the very first time – exhibiting at the leading trade fair for filter and filtration systems – the FILTECH in Cologne, Germany (March 8-10, 2022). The Neumünster-based manufacturer of nonwoven systems and equipment will be taking the opportunity to focus on market- and customer-oriented system solutions for filtration applications. Trade fair visitors will be able to meet the team and delve into the company’s comprehensive product and process know-how at trade fair stand B18 in Hall 8.

Filtration: leading meltblown 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 field of 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 technology.

Filter media can be efficiently electrostatically charged with the ecuTEC+ electro-charging unit developed by Oerlikon Nonwoven for increasing the filtration performance of meltblown media without reducing air permeability. 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. However, ecuTEC only represents the beginning of an era of new charging and treatment systems available from Oerlikon Nonwoven for further increasing media filtration performance and product diversity. Trade visitors are invited to visit the Oerlikon Nonwoven stand to take a closer look at this brand-new product and its unexpected performance possibilities.

High-performance technology for industrial nonwovens - Spunbond solutions for filter applications

Oerlikon Nonwoven systems for industrial nonwovens are capable of high production capacities and yields with simultaneously low energy consumption. In addition, spunbond products are also becoming increasingly important in filtration applications – both as backing materials for filter media and as the filter media itself. An engineered nonwoven structure permits the inclusion and/or combination of different customer-specific requirements for various functions into just one layer. It is Oerlikon Nonwoven's many years of bi-component spinning experience in particular that enable the creation of completely new nonwoven structures and hence the incorporation of various functions in a single material. The bi-component spinning process allows the combination of various fiber cross-sections and simultaneously the manufacture of different fibers from a single or different polymers using only one system. The spectrum ranges from classical core-sheath and side-by-side bi-component filaments, splittable fibers all the way through to so-called mixed fibers.

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

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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

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