

Oerlikon Nonwoven takes part in FILTECH in Cologne

Leading expertise in filtration

Neumünster, 02 September 2024 - At FILTECH, the leading trade fair for filters and filtration systems in Cologne (12-14 November), Oerlikon Nonwoven will be presenting its market- and customer-oriented system solutions for filtration applications. The Neumünster-based plant engineering company for nonwoven production technology will be offering trade fair visitors the opportunity to meet the team in hall 8, stand B18 and immerse themselves in the company's comprehensive product and process expertise.

Filtration: Leading meltblown solutions for the highest demands

Oerlikon Nonwoven meltblown technology enables the efficient and simple production of unique and highly sophisticated nonwovens for filtration, insulation and sorption applications. The polymers used for the production of filter media and membranes are just as diverse as their areas of application. The spectrum ranges from classic polyolefins (PP, PE) through PET, PLA, PBT and PA to speciality plastics such as PPS and TPU. All these and other raw materials can be safely processed using the Oerlikon Nonwoven Meltblown process.

With the Edana Filtrex Innovation Award-winning hycuTEC hydrocharging technology for the production of highly efficient electret filter media, the pressure loss of a typical FFP2 filter medium can be reduced to less than a quarter. "Filtration efficiencies of over 99.99% are easy to achieve with typical filter media of around 35 g/m² with a maximum pressure loss of 35 Pa," explains Dr Ingo Mählmann, Director Sales & Marketing Nonwoven. "What's more, this innovative process eliminates the need for an additional drying process for the production of high-separation electret filter media for most applications," he continues.

Spunbond solutions: High-performance technology for filter applications

Spunbond products are becoming increasingly important in filtration applications - both as backing materials for filter media and as the filter media themselves. Thanks to a nonwoven structure tailored to their specific tasks, customer-specific requirements for different functions can be realised; it is also possible to combine different functions in one layer. In particular, many years of experience in the field of bicomponent spinning processes enable the design of completely new nonwoven structures and thus the fulfilment of different functions in one material. With the Oerlikon Nonwoven Bico spunbond process, different fiber cross-sections can be combined, but also different fibers can be produced simultaneously from one or different polymers on one system. The spectrum ranges from classic core-sheath and side-by-side bico filaments to splittable fibers and so-called mixed fibers.

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Caption 1: The Oerlikon nonwoven hydrocharging technology hycuTEC for meltblown systems impresses with maximum filtration efficiency combined with low pressure loss.

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 12 600 employees and generated sales of CHF 2.7 billion in 2023.

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

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