Press Release

FiltXPO 2020

Oerlikon Nonwoven showcases convincing meltblown and spunbond technology

Neumünster, January 23, 2020 – the Oerlikon Nonwoven experts will be presenting efficient solutions and comprehensive technology know-how for challenging filtration tasks to an international trade audience at the FiltXPO 2020 in Chicago, USA (Stand # 420), taking place between February 26 and 28.

Meltblown technology for filtration applications

Meltblown technology is one of the most efficient methods for producing very fine and highly-separating filter media made from manmade fibers. New, unique and highly-sophisticated filter media are easy to manufacture thanks to Oerlikon Nonwoven's optimized meltblown technology. This process is characterized by its constant melt pressure distribution and consistent dwell time across the entire width of the spinning beam, Furthermore, the novel guidance and distribution of the process air outside the coat-hanger distributor offered by the Oerlikon Nonwoven technology prevents so-called hotspots, which overall ensures particularly homogeneous nonwoven properties and basis weights even in the case of delicate raw materials.

Electro-charging for superior filter separation performance

The filter efficiency can be considerably increased by means of so-called electro-charging – where the nonwovens are electrostatically charged. With its extreme flexibility when charging the most diverse nonwovens, the Oerlikon Nonwoven charging unit stands out against other concepts currently available on the market. Users can freely choose from a large number of variation possibilities and set the optimum charging method depending on the filter application, allowing the Oerlikon Nonwoven charging unit to also be used for the manufacture of EPA- and HEPA-class filter media.

Spunbond technology for filtration applications

And spunbonds are frequently also being deployed in liquid and air filtration. Here, the nonwovens are predominantly used as carrier materials in order to provide both filter stability and the necessary pleatability. Furthermore, they are also deployed as preliminary filters in automobile and HVAC applications (heating, ventilation, air conditioning).

It is in this area that Oerlikon Nonwoven stands out with its segmented spin packs, which guarantee even melt distribution and polymer dwell time. The new forming section ensures improved nonwoven formation evenness across the entire width, even in the case of high spinning speeds, special polymers and polymer combinations. In addition to this, the newly-designed system also ensures that nonwovens only require minimal edge trimming at the end of the production process. The newly-developed mixed-fiber technology enables the combining of various filament cross-sections and polymers, in order to set ideal filtering and pleating performances, for example.

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Caption: The Oerlikon Nonwoven electro-charging unit ensures superior filter separation performance, also in the case of EPA- and HEPA-class filters.

Caption: Due to their highly-separating filtering properties, meltblown nonwovens are often utilized for medical applications such as blood filters, for example.

For further information:

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About Oerlikon
Oerlikon (SIX: OERL) develops modern materials, systems and surface technologies and provides specialized services aimed at securing high-performance products and systems with long lifespans for customers. Supported by its technological core competencies and its strong financial footing, the corporation continues its medium-term growth plan by implementing three strategic factors: focusing on attractive growth markets, ensuring structural growth and expanding through targeted M&A activities. Oerlikon is a globally-leading technology and engineering corporation, operating its business in two segments (Surface Solutions and Manmade Fibers) and employing around 10,500 members of staff at 175 sites in 37 countries worldwide. In 2018, Oerlikon generated sales of CHF 2.6 billion and invested around CHF 120 million in research & development.

For further information: www.oerlikon.com

About Oerlikon Segment Manmade Fibers
With its Oerlikon Barmag, Oerlikon Neumag and Oerlikon Nonwoven brands, Oerlikon Manmade Fibers segment is the world market leader for manmade fiber filament spinning systems, texturing machines, BCF systems, staple fiber systems, solutions for the production of nonwovens and – as a service provider – offers engineering solutions for the entire textile value added chain. 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 the supply of continuous polycondensation and extrusion systems and their key components, the company caters to the entire process – from the monomer all the way through to the textured yarn. The product portfolio is rounded off by automation and industry 4.0 solutions. The primary markets for the products 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. Worldwide, the segment – with just under 3,000 employees – has a presence in 120 countries of production, sales and distribution and service organizations. At the R&D centers in Remscheid, Neumünster (Germany) and Suzhou (China), highly-qualified engineers, technologists and technicians develop innovative and technologically-leading products for tomorrow’s world.

For further information: www.oerlikon.com/manmade-fibers