

Press release

Innovations at the Index 2017: Customer benefit from greater flexibility

Oerlikon Neumag presents innovative electro-charging unit for meltblown systems

Neumünster, April 4, 2017 – Oerlikon Neumag will be premiering its newly-developed concept for electrostatically charging meltblown nonwovens at the Index 2017 in Geneva. The new in-line charging unit differs from other concepts currently available on the market as a result of its high level of flexibility when charging the most diverse nonwoven products, particularly in the case of nonwovens with lower basis weights and tenacities.

Users can set the optimum charging condition depending on the filter application. High wrapping angles at the guide rollers ensure optimum charging, which can be carried out on both sides, positive and negative. Laboratory trials have shown that – in conjunction with the Oerlikon Neumag meltblown technology – the Oerlikon Neumag charging unit can also be used to manufacture EPA- and HEPA-class filters. To this end, an H14-class filter with an efficiency of 99.995% was produced with an overall pressure loss of less than 100 Pa.

Electro-charging for superior filter separation performance

Oerlikon Neumag meltblown technology is one of the most efficient methods for producing very fine and highly-separating filter media made from plastic fibers. Depending on the application, the pore size of a meltblown nonwoven material ranges from 5 to 40 µm. Here, smaller pores increase the mechanical filtration performance, albeit at the expense of higher pressure losses. The fineness of the meltblown fibers used for filter media lies in the 200 to 2,500 nm range. However, even fibers with nanoscale fineness are often not sufficient to separate the finest particles from air or liquid flows. Electrostatically charging filter media can significantly and inexpensively improve the filter performance without increasing the throughput resistance.

286 words



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About Oerlikon

Oerlikon (SIX: OERL) is a leading global technology Group, with a clear strategy to become a global powerhouse in surface solutions, advanced materials and materials processing. Backed by the key ability to intelligently engineer and process surface solutions and advanced materials, the Group is committed to invest in value-bringing technologies that provide customers with lighter, more durable, more efficient and environmentally sustainable products. A Swiss company with over 100 years of tradition, Oerlikon has a global footprint of over 13,500 employees at more than 180 locations in 37 countries and reported sales of CHF 2.3 billion in 2016. The company invested CHF 94 million in R&D in 2016 and has over 1 000 specialists developing innovative and customer-oriented products and services.

For further information: www.oerlikon.com

About the Oerlikon Manmade Fibers segment

With its Oerlikon Barmag and Oerlikon Neumag brands, Oerlikon Manmade Fibers segment is the world market leader for manmade fiber filament spinning systems, texturing machines, BCF systems, staple fiber systems, nonwovens and artificial turf systems 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. With the expansion of the product range to include polycondensation systems and their key components, the company now caters to the entire process – from the monomer all the way through to the textured yarn. The primary Oerlikon Barmag markets are in Asia, and – for Oerlikon Neumag – in the USA, Turkey and China. Correspondingly, Oerlikon Barmag and Oerlikon Neumag – with just under 2,500 employees – has a worldwide presence in 120 countries as part of the Oerlikon Manmade Fibers network of production, sales and distribution and service organizations. At the R&D centers in Remscheid, Neumünster and Chemnitz, highly-qualified engineers and technicians develop innovative and technologically-leading products for tomorrow's world.

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