Oerlikon Nonwoven presented technology portfolio for filter applications

hycuTEC the focus of many discussions at the FILTECH trade fair

Oerlikon Nonwoven hit the perfect note among visitors at this year's FILTECH trade fair in Cologne with its hycuTEC hydrocharging technology for efficiently charging filter media. Following the market launch of hycuTEC last year, we have now for the first time been able to discuss initial experiences acquired in industrial utilization. Being presented with the EDANA FILTREX Innovation Award confirms the innovativeness and the success factors of this technology.

"We premiered hycuTEC in front of an international audience at last year's FILTECH", reminisces Dr. Ingo Mählmann, Vice President Sales & Marketing at Oerlikon Nonwoven. And the hycuTEC technology has lost none of its attractiveness since then. "Interest remains extremely high", adds Ingo Mählmann. The hydrocharging solution for meltblown systems is most convincing with its superlative filtration efficiency with simultaneous lower pressure loss. This innovative concept dispenses with an additional drying process when manufacturing most highly-separating electret filter media. As a result, it saves water and, above all, energy compared to alternative processes. Furthermore, meltblown producers can make raw materials savings of up to 30% as a result of the improved efficiency of the media, while simultaneously lowering the basis weights.

In addition to the meltblown technology featuring hycuTEC, Oerlikon Nonwoven's spunbond technology also proved to be of great interest to visitors. Spunbond media are becoming increasingly important in filtration applications – as backing materials for filter media and as the filter media themselves. The fact that the nonwoven structure can be tailored to specific tasks enables targeted, customer-specific requirements for various functions to be realized. And combining various functions, various fiber cross-sections and polymers in a single layer is also possible. Both classical standard polymers and bio-based or recycled polymers can be used as raw materials.



Caption 1: Raw material savings of up to 30% can be easily achieved with the hycuTEC technology.



Caption 2: Oerlikon Nonwoven at FILTECH 2023