Functional textiles must be dependable, economical and sustainable

Investments by Trans-Textil in technology, innovations and environmental protection

Trans-Textil is enlarging its production facility in Freilassing, south-east Germany and investing in state-of-the-art plant and equipment to bolster its capabilities and expertise in the development and production of multifunctional fabric systems. Its lamination, finishing, coating, printing and membrane technologies are also the basis for the innovations it will be showcasing at the Techtextil (hall 3.0, booth H56). These range from textiles for use in laser protection applications to membrane laminates for personal protective equipment, footwear and medical devices and also include cut-to-shape membrane solutions for automated lightweight construction.

Focus on making-up, leasing and applications

In many application areas, leasing protective clothing is an attractive economic alternative to the purchase of such apparel. But users and procurement officers alike expect textile materials to maintain their characteristics over the useful life of the garment. An instrumental role is played in this respect by environmental influences and the extent to which a garment is worn as well as its cleaning and care in industrial laundry services most particularly.

At the show Trans-Textil GmbH will accordingly be exhibiting functional textiles that have proven their worth in commercial laundry services, medical applications and safety apparel. Such textiles include multifunctional laminates that have satisfied the demands of industrial laundry firms for years, documenting their high performance standard with certification to EN ISO 15797, EN ISO 20471 and EN 343. On the basis of Trans-Textil's portfolio of track-tested membranes and also cutting-edge processing

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technologies, laminates that provide not only a high degree of protection for end users but also a long useful life and durability for the apparel – and thus economic efficiency for apparel leasing companies – have been developed for multi-risk protective clothing by leading fabric manufacturers working in collaboration with the Freilassing-based company. Plus in the making-up field, Trans-Textil offers its partners suitable seam sealing tape and proven repair patches in an all-encompassing approach.

Topaz ELEMENTS: Sustainable commitment

"PPE wearers expect functional textiles to provide dependable protection from wind, weather, heat and cold and other environmental influences first and foremost. This aspect is not only of concern for the health of the wearer but also fairly frequently with regard to vital functions in professional use", state Manfred Hänsch and Matthias Krings, two of 'Trans-Textil's Managing Directors. On the other hand, legislation, certification bodies and customer and end user expectations are leading to an increase in ecological requirements. "We are tackling these challenges in a committed way, primarily through intensive cooperation with our customers and our partners in the auxiliaries industry and at research and test institutes".

To this end Trans-Textil has developed its Topaz ELEMENTS sustainability concept, which focuses on reconciling the provision of high-level specific protective effects with consideration for natural resources and a lowering of impact on such essential elements as air, water and soil. Trans-Textil frequently plays a pioneering role in such environmental protection matters. Continuous broadening of know-how, enlargement of its application engineering team and investments in leading-edge process technology are enabling the company to intensify its respective efforts and develop product alternatives based first and foremost on aqueous formulations.

Trans-Textil's s readiness to surpass statutory requirements in its work is documented by the fact that its products are certified to the Oeko-Tex 100 standard and to EN ISO 9001, EN ISO 14001 and OHSAS 18001 (OHRIS). Its functional textiles also meet the requirements of European standards for high-visibility clothing (EN 471), protective clothing for fire-fighters (EN 469 / HuPF), heat protective clothing (EN 11612), clothing for protection against foul weather (EN 343) and cold (EN 342), protective clothing

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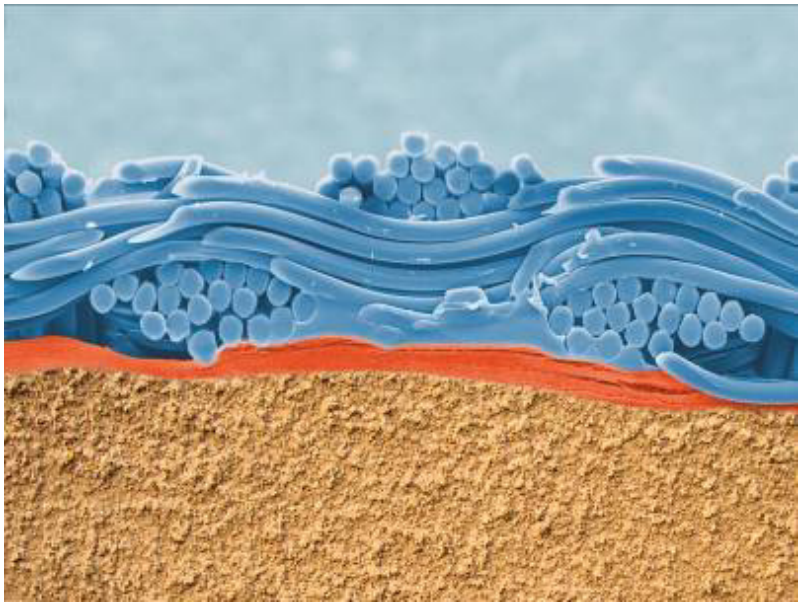
with electrostatic properties (EN 1149), surgical gowns and drapes (EN 13795) and safety shoes (EN 344).



Membrane systems on a PU, ePTFE or PES basis coupled with cutting-edge process technologies form the foundation for innovations in technical application areas.

Consisting of two microporous components, Trans-Textil's unique Topaz Bimicro membrane provides laminate systems a high degree of air porosity and breathability at the same time as high impermeability.

All pictures are available in high resolution. ® Trans-Textil GmbH

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