

Functional fabrics for high-performance protective apparel

Trans-Textil GmbH to showcase successful fabric technologies at 2011 Techtex^{til}

At the Techtex^{til} 2011, Trans-Textil GmbH will be showcasing the concrete results of application-oriented functional fabric production technologies at booth H56 in Hall 3.0, presenting innovative solutions that have proven their worth in high-quality protective garments in field conditions. For the partner of public authorities, industrial concerns, ready-to-wear apparel manufacturers and laundry services all over Europe, this opens up new application possibilities for the membrane technologies and performance properties concerned.

"In developing new functional textiles for PPE, we pay particular attention to ensuring they provide lasting protective properties for frequent re-processing and a long life cycle, and we accordingly attach great value to feedback from the field", states Sales Manager Ronald Ploderer. A case in hand concerns Trans-Textil's new Topaz Dualguard finish, which has demonstrated excellent dirt repellence and wash-removal properties in long-time wear tests in shunting operations at Bavaria's Annahütte steel works. As the test results show, luminance according to EN 471 is retained significantly longer than in standard FC finishes, and this in turn has a positive effect in terms of the life cycle of the apparel and in worker visibility.

Two years ago, Trans-Textil GmbH unveiled a new development in the form of Topaz Bimicro, the first membrane to offer two microporous layers. Yielding excellent breathability coupled with high water impermeability, the product is now finding use in concrete applications.

In addition to multifunctional products in line with standards such as those applicable to firefighting turnout gear (EN 469 / HuPF) and clothing providing protection from heat and flame (EN 11612), garments for protection against foul weather (EN 343) and cold (EN 342), protective clothing with antistatic properties (EN 1149), surgical gowns and drapes (EN 13795) and safety shoes (EN 344), Trans-Textil is also working on synergistic effects for special applications. Its Topaz Powerguard finish, for example, delivers particularly high repellency of liquid fuels such as gasoline and kerosine, thus offering increased safety for special task forces, industrial workers, tank truck drivers and airport personnel. Plus as part of the Prosys Project, the company is also involved in the development of innovative textile solutions for passive and active laser beam protection.

In the medical field, Trans-Textil's multi-layer laminates make their mark with a meaningful interplay of track-tested membranes, fabrics and sophisticated processing technology. Here again Trans-Textil aligns its products to hands-on requirements, coming up with fast-drying and highly absorbent outer fabric layers that surpass the requirements of the EN 13795 standard. The reusable drapes and gowns involved enable repeated re-processing for a long life cycle and are thus an economically attractive option. This ties in with Trans-Textil's concern for the environment, as expressed in its certification to EN ISO 14001, fulfilment of Oeko-Tex Standard requirements and membership in the Environmental Pact of Bavaria thanks to its voluntary environmental engagement.



High-visibility protective clothing featuring Topaz Dualguard gets put to the test at the Annahütte steel works. By providing lasting dirt repellence and optimised wash removal of oil, graphite and other stains, the finish prolongs the protective properties of the garment for a long life cycle.



As a supplier of innovative functional fabrics for multifunctional high-performance protective clothing, Trans-Textil is a partner to ready-to-wear apparel manufacturers, laundry services, public authorities and industrial businesses all over Europe.