# Research and Development Profile at Institut für Textil- und Bekleidungstechnik der Technischen Universität Dresden

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#### Abstract:

The paper presents an overview about the important R&D projects at ITB. Following topics will be explained:

- development of textile preforms for composites (textile reinforced plastics, reinforcement of concrete and timber)
- *textile structures for mechanical body and equipment protection (crash, ballistic, cut, stab)*
- development of insulation materials (heat, cold and sound protection)
- evaluating and development of micro-biological barrier textiles for surgical protective clothing.

The paper demonstrates main fields for the european future of textiles: technical textiles of highest performance, highest quality, unique and in consequence for the best competition position.

*Keywords: technical textiles, composites, protective textiles, insulation materials, barrier textiles* 

# **1** Development of Textile Preforms for Composites

























### 2 Textile Structures for Mechanical Body and Equipment Protection





## Development of Insulation Materials





#### 4 Evaluating and Development of Micro-Biological Barrier Textiles for Surgical Protective Clothing





