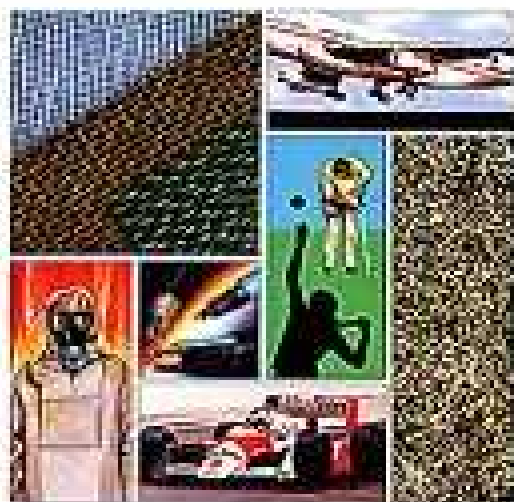


Report Summary:  
Innovative Products Based on High-Tech Textiles  
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## Technical Textile Markets

Business and market analysis for the world's industrial textile industry



Textiles  
Intelligence

The future of the West European textile and clothing sector lies not in constant price cutting but in more intelligent products with additional functionality. Forschungsinstitut Hohenstein (Hohenstein Research Institute) classifies intelligent clothing into five major areas: transfer systems; adaptive systems; smart clothing; transponder systems; and microtechnology and nanotechnology. To exploit new technologies fully, however, a multidisciplinary approach is required involving networks and a dialogue between researchers, manufacturers, applications specialists and marketing professionals.

Innovators are responding to the challenges with a plethora of developments. Products include those developed for climate control such as: the vAIRis membrane jacket with integrated variable heat insulation; Gore Airvantage inflatable clothing; the Corpo

Nove clothing range from Grado Zero Espace, including a jacket incorporating Aerogel and sold under the Hugo Boss label; and items containing the fluff and seed fibres from poplar trees. "Feelgood clothing" is being made from SeaCell, derived from algae. Healthcare products include: LifeShirt; SmartShirt; and knee bandages and gloves with artificial muscles and stretch sensors. Protective clothing includes: SwissShield, containing a thin silver-plated single copper filament to protect against radiation; the ABS avalanche airbag; and D'Appolonia's cooling jacket. In the field of integrated textiles and electronics, products include: France Telecom's flexible text screen for integration into clothing; Wearaphone, a hands-free telephone system which does not need ear plugs, developed by Orange in cooperation with Clothing+; Luminex, which distributes light throughout the fabric of a dress; and the Infineon jacket with an integrated MP3 player.

<http://www.textilesintelligence.com/tisttm/index.cfm?pageid=3&repid=TISTTM&issueid=57&artid=1095>