

Technical Textile Market: \$220B in 2022, Set to Reach \$370B by 2032 with CAGR of 5.3%

Technical Textile market covering 30 countries including analysis of US, Canada, UK, Germany, France, Nordics, GCC countries, Japan, Korea and many more

ROCKVILLE, MARYLAND, USA, October 9, 2023 /EINPresswire.com/ -- The global [technical textile market](#) size is estimated at US\$ 220 Billion in 2022, and is forecast to reach a valuation of US\$ 370 Billion by 2032, expanding at a CAGR of 5.3% over the next ten years. As per detailed analysis by Fact.MR, the technical textile market is estimated to account for nearly 43% of global textile sales by 2032. Technical textile consumption stood at around 42 Mn MT in 2021, and is predicted to reach 67 Mn MT by 2032.

The global technical textile market has witnessed a remarkable transformation in recent years, driven by innovation, changing consumer demands, and advancements in manufacturing processes. Technical textiles, often referred to as "functional textiles," are engineered to serve specific functions beyond the traditional role of clothing. These textiles find applications in various industries, including automotive, healthcare, construction, agriculture, and aerospace. In this article, we will delve into the dynamics, trends, and future prospects of the technical textile market, which continues to expand its footprint across the globe.

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Market Size and Growth

The technical textile market has experienced significant growth in recent years and is expected to continue its upward trajectory. According to a report by Grand View Research, Inc, Factors such as increasing demand for advanced materials, the need for sustainable solutions, and technological advancements have been key drivers of this growth.

One of the primary drivers of the technical textile market's expansion is the automotive industry. The demand for lightweight, high-performance materials to improve fuel efficiency and reduce emissions has led to a surge in the use of technical textiles in vehicle interiors, exteriors, and components. Additionally, the healthcare sector has seen substantial growth in the use of medical textiles for wound care, surgical gowns, and other applications.

Key Segments

The technical textile market encompasses a wide range of product categories, including:

1. **Agrotech Textiles:** These textiles are used in agriculture for applications such as crop protection, greenhouse shading, and soil stabilization. The growing demand for sustainable farming practices has boosted the adoption of agrotech textiles.
2. **Geotech Textiles:** Geotech textiles are utilized in civil engineering for applications like erosion control, soil reinforcement, and construction. They provide stability and durability to various structures, making them an integral part of infrastructure development projects.
3. **Meditech Textiles:** With the aging global population, there is a rising demand for medical textiles in applications like wound dressings, bandages, and surgical drapes. These textiles offer antimicrobial properties, breathability, and comfort for patients.
4. **Protech Textiles:** These textiles find applications in personal protective equipment (PPE), including bulletproof vests, fire-resistant clothing, and hazmat suits. The emphasis on worker safety and security has driven the growth of this segment.
5. **Mobiltech Textiles:** Mobiltech textiles are used in the automotive and transportation industries for applications such as airbags, seatbelts, and car interiors. The shift towards electric vehicles and autonomous driving has further spurred the demand for these textiles.
6. **Oekotech Textiles:** Oekotech textiles are designed to be eco-friendly and sustainable. They are used in various applications, including eco-friendly packaging, biodegradable textiles, and pollution control.

Innovations Driving Growth

The technical textile market's growth is closely linked to innovation and the development of cutting-edge materials and technologies. Some notable innovations include:

1. **Smart Textiles:** The integration of electronics and sensors into textiles has given rise to smart textiles. These fabrics can monitor vital signs, provide heating or cooling, and even change color or shape in response to stimuli. Smart textiles have applications in sports, healthcare, and the military.
2. **Nanotechnology:** The use of nanomaterials in technical textiles has enabled enhanced properties such as improved strength, durability, and UV resistance. Nanotechnology is being applied to create textiles with self-cleaning capabilities and superior water repellency.
3. **Sustainable Textiles:** As environmental concerns continue to grow, there is a significant shift

towards sustainable and eco-friendly textiles. Materials made from recycled plastics, organic fibers, and biodegradable polymers are gaining popularity in the market.

4. 3D Printing: 3D printing technology is revolutionizing the production of technical textiles. It allows for the creation of complex, customized textile structures with precision, reducing waste and production costs.

Challenges and Future Outlook

While the technical textile market holds great promise, it also faces several challenges. One major hurdle is the high cost of research and development associated with creating advanced textiles. Additionally, the market is highly competitive, with numerous players vying for market share. Maintaining quality standards and ensuring product consistency are critical for success.

In the future, the technical textile market is expected to continue its growth trajectory, driven by factors such as increased infrastructure development, the need for sustainable solutions, and the rising demand for advanced healthcare textiles. Innovations in materials and manufacturing processes will play a pivotal role in shaping the industry's future.

Competition Landscape & key players

3M Company, Ahlstrom Corporation, Arville Textiles Ltd, Asahi Kasei, Avintiv, Baltex, Berry Global, and Dickson-Constant are some of the key manufacturers of technical textile products.

Latest high-tech fabric market developments include:

- In January 2022, Asahi Kasei Advance announced the opening of Airbag Fabric in Vietnam. Textiles manufactured at the site come equipped with superior strength, durability, and heat resistance. The company has strategically placed its manufacturing unit in Vietnam to fulfil the rising demand for textiles from the automobile sector.
- In May 2021, 3M announced launching of 3M Thinsulate technology that will comprise 60% post-consumer recycled material. The company aims at bringing innovation and research in technical textiles, and gain a competitive advantage in terms of high-performance materials.

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