

Technical textiles Market Set to Reach USD 338.79 Billion by 2032, Growing at a CAGR of 6.2% To Forecast 2025-2032

Technical textiles are high-performance fabrics engineered for specific functional purposes rather than aesthetic use.

ORLANDO, FL, UNITED STATES, July 9, 2025 /EINPresswire.com/ -- Technical Textiles Are Expected to Drive Future Innovations in Applications from Safer Cars to Advanced Medical Care and Hygiene.

Technical Textile Market was valued at USD 209.38 billion in 2024 and revenue is expected to grow by 6.2% from 2025 to 2032, reaching nearly USD 338.79

billion in 2032. The smart textiles sector is expected to hold transformative potential across many industries through the developments of advanced technology and textiles. Many Industries are shifting their focus towards lightweight, durable, and energy-efficient textile materials for production in automotive and aerospace sectors are driving the demand for technical textile.



The technical textile market is growing steadily, driven by innovations in smart fabrics, sustainability trends, and rising demand across healthcare, automotive, construction, and defense sectors."

Navneet Kaur



[Technical textiles Market](#) Overview:

Technical textiles are specialized fabrics, which is designed mainly for their functional and performance characteristics rather than aesthetics. It serves a wide range of industries from construction, agriculture, aerospace, automotive, healthcare, protective clothing, and home care. Technical textiles offer increased performance over the traditional textiles and it is manufactured using fibres like Kevlar, Spandex, Twaron and Nomex. It offers enhanced

functional properties tenacity, superior insulation, and upgraded thermal resistance. The

technical textile products are in great demand and gaining traction across developing economies.

Geographically, Asia-Pacific is projected to grow at a CAGR of 7.5% during the forecast period. The presence of the end user industries like healthcare, automotive, construction and industrial development and government focus towards technical textiles are some of the prominent factors behind the demand for technical textiles. The advancement and market penetration of technical textiles in Europe and the United States are suggestively reinforced by the presence of cutting-edge technologies and a highly skilled, educated workforce. Approximately 40% of textile manufacturing in developed country regions is attributed to technical textiles, which is reflecting their strong focus on innovation, high-performance applications, and value-added production.

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Growing Demand for newer technologies and global focus on sustainability is expected to drive a Market Growth.

High consumer preference towards the protective clothing and fashion is driving the demand for technical textiles. Many consumers are starting to prefer technical textiles over traditional textiles. It offers features like flexible, durable, high-quality and high strength textiles in the sectors activewear or medical apparel is making it suitable choice for fashion trend. Key players operating in the market are shifting their focus adoption of innovative engineering technologies, and are growing consumption of technical textiles. An increase in awareness and preference of nano-fibres to make lighter and stronger concrete material are offering a boost to nanotechnology adoption with continuous research & advancement in technical textile materials and its properties. The demand for innovative technologies and global focus on circular economy are driving the awareness towards usage of Geotech and Oekotech solutions across emerging economies.

Some of the Key Insights in Technical Textiles Industry

The technical textile industry is evolving sustainability through the implementation of water recycling systems, eco-friendly and bio-based materials.

Supply chain diversification and the execution of emerging technologies like blockchain and artificial intelligence are increasing traceability, and operational transparency of technical fibre. The consumer awareness and demand for sustainability are encouraging key players operating in the technical textile sector to prioritize sustainable packaging, and full product lifecycle transparency.

Study of the technical textiles is one of the most significant fields of product development for engineering applications.

Natural fibre manufacturers are presently seeking development work in high-performance

textiles for usage in transportation, aerospace, space shuttle, healthcare, and automotive. The developed nations like United States, and Western Europe have achieved significant technology developments in technical textiles through resourcefulness in innovation and enhanced research and technology. Technical fibres have been an essential element of product structure and composition. A focus on discovering new or creative alternatives to outperform current composites are increasing as material research is progressing. Currently, textile fibres play a key role in the aviation, and aerospace sector. The continuous research and development in fibre science, material technology, and textile engineering are focusing to create fabrics, which helps to respond to incentives, conduct electricity, and resist extreme temperatures.

By Application, Mobiltech segment held the dominant Position in the Technical textile Market.

Mobiltech are technical textiles, which is used in automotive or transport sector. It includes applications area like automotive and automotive components. It refers to textile products, which is used in vehicles like cars, ships, aircraft trucks, and trains including partes like seat belts, airbags, insulation fabrics, and tire cords. Growth in global automotive production, increasing focus on passenger safety, lightweight materials for fuel efficiency, and boosted comfort are expected to drive the demand for mobiltech technical textile. The strict government regulations associated to safety and emissions are encouraging to automakers to adopt high-performance technical textiles to meet compliance standards of automotive products. The technology innovations in textile composites and advanced fiber materials are expected to strengthen the Mobiltech segment, which is making it a key component in current vehicle manufacturing.

India is becoming an Emerging Manufacturing Hub for Technical textile

The textile sector contributes significantly to the output of the manufacturing sector. The industry has recently advanced up the value chain and expanded into technical textiles. The government is actively encouraging research and innovation activities in technical textiles to boost exports and sector competitiveness across the globe. The textile sector is contributing significantly to the output of the manufacturing sector. The industry has recently advanced up the value chain and expanded into technical textiles. The availability of raw materials like cotton, wood, jute and silk, robust value chain, low-cost labour, and changing consumer trends towards high performance material usages are some of the contributing factors to the technical textile market.

Based on the Stellar Market Research report, the Technical Textile Market is expected to increase from USD 209.38 billion in 2024 to USD 338.79 billion by 2032 at a CAGR of 6.2%. The technological innovations and research in the technical textile industry support the adoption of the it in automotive applications across the globe.

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Asia Pacific region has strong manufacturing base is a key driver of growth in the technical textile market. The rapid expansion of the end-user industries like electronics, automotive, and healthcare sectors in the developing economies as China, India, South Korea, Taiwan, and other developing countries are expected to boost the demand for technical textile. The manufacturing strength empowers large-scale production of a wide range of technical textiles used across end user industries like construction, automotive, agriculture, and healthcare sectors. The supportive government initiatives across developing nations, high domestic textile demand, are expected to drive the market growth. Many key players from different sector are focusing on the shifting their production unit to the Asia Pacific due to the availability of the cheap labor and drastically increasing economic growth rate and manufacturing industries.

The competitive landscape of the technical textile market is extremely dynamic and categorized by the presence of both global companies and regional manufacturers. The prominent players like Freudenberg Group, DuPont, 3M, Low & Bonar, Berry Global, and Ahlstrom-Munksjö are contributing dominant share in the market with their strong technical capabilities, expanded product portfolios, and well-known global supply chains.

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