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Woven Textile in Construction Market Report: Trends, Forecast and Competitive Analysis to 2030

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Abstracts

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Woven Textile in Construction Trends and Forecast

The future of the global woven textile in the construction market looks promising with opportunities in the swimming pool and architectural dome markets. The global woven textile in construction market is expected to grow with a CAGR of 2.5% from 2024 to 2030. The major drivers for this market are the rising demand for eco-friendly woven textiles, the growing preference for lightweight and durable woven textiles in construction projects, and the increasing adoption of thermal-insu woven materials.

> Lucintel forecasts that, within the product type category, woven roving is expected to witness higher growth over the forecast period.
>
> Within this market, architectural dome is expected to witness higher growth.
>
> In terms of regions, APAC is expected to witness the highest growth over the forecast period.

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Emerging Trends in the Woven Textile in Construction Market

The woven textile in the construction market is witnessing radical changes due to the

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evolution of science-based materials, environmental needs, and affordability in construction practice.

Sustainability and Eco-Friendly Materials: As a result of such a drive towards green builders, there arises a shortfall in builders for green countries hence more efforts should be directed to design non-ecofriendly building materials. Materials in woven textiles are being made with the incorporation of biodegradable and recyclable fibers thus no negative impact is made. Industry players are also considering the usage of waste materials in the making of woven textiles to contribute to the reduction of carbon footprints and the provision of responsible practices in the construction industry.

Technological Improvements: New technological methods like spun bond technology and melt blown are enhancing the characteristics of woven textiles so that they are stronger and more functional. These allow better construction applications such as moisture, UV, and temperature fluctuations resistance. Moreover, manufacturing processes are also being automatized, resulting in reduced costs of production and elevated extensibility, which facilitates the use of these technologies on a larger scale.

Increased Utilization in Geotechnical Engineering: Nonwoven textiles are now more applied in geotechnical engineering processes such as soil reinforcement, retarding erosion as well as drainage systems. The property of woven covers which allows protection against wear and tear and even improvement of the roadway, embankment, and foundation makes their incorporation worth in civil engineering. This trend looks set to be supported as the need for building infrastructure increases around the world.

Woven Integration into Energy-Saving Structures: Given the factors that influence the increasing need for energy-efficient and ‘green’ structures, woven textiles have been gaining application for seals, thermal insulation, and moisture barriers within and outside of buildings. These textiles effectively meet thermal and acoustic requirements and save energy, hence lowering energy bills and increasing the comfort of inhabitants.

Growth in the Roofing and Waterproofing Applications: woven products are increasingly being used for the manufacture of roofing materials and waterproofing membranes. The applications include use as moisture barriers as well as enhancing the durability of roofing and foundation systems. As

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construction works progress and new materials replace the old ones, woven textiles prove to be effective in expansion joints waterproofing.

These trends emphasize the role played by woven textiles in the construction machinery market focusing on environmentally friendly building structures, geotechnics, and efficient energy-consuming structures. Improvements in technology and the desire for more environmentally friendly products are also quickening the incorporation of woven textiles in important construction markets.

Recent Developments in the Woven Textile in Construction Market

The woven textile in the construction market appears to be undergoing tremendous growth opportunities supported by advancements in geotechnics, insulation, and green building materials. There is a heightened adoption of these textiles in more applications focusing on the construction of more durable, effective, and green building practices.

Development of Geotextiles: woven products are better suited for construction, road construction as well as the stabilization of soil since they enhance durability and cost-effectiveness. These textiles are employed to prolong the life span of the roads, curtail the occurrence of landslides, and support the slopes during construction works.

Sustainability Initiatives in Production: Due to the rising pressure on woven textile manufacturers, initiatives like incorporating recycling items and using biodegradable materials into the production process, have been adopted. This change is enabling less pollution during construction and facilitating rising demand for green building materials.

Technological enhancements in waterproofing: woven textiles have become integral to waterproofing components in roofs and bases. A moisture barrier is one of their advantageous properties, and this drives further improvement of waterproofing systems for buildings in terms of materials used as well as overall operational lifetime and efficiency.

Increased use in insulation materials: The trend of woven textiles application in insulation is gaining traction, especially in energy-optimizing structures for both thermal and acoustic applications. These textiles offer better insulation thereby helping in reducing energy usage in heating & cooling requirements of the

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buildings both residential and commercial.

Focus on durability and performance: The need for woven textiles in the construction sector is ushering in improvements in the performance changes of these materials. Efforts are being redirected toward durability, UV resistance, and moisture control amidst the increasing usage of woven textiles in the construction sector.

The recent trends witnessed in woven textiles indicate the increases in construction market demand for materials that are rugged, environmentally friendly, and possess high functionality. There are changes in the applications of nonwoven textiles for geotechnical engineering, waterproofing, and insulation, which indicates the direction where this product is heading within the sector.

Strategic Growth Opportunities for Woven Textile in Construction Market

The woven textile in the construction market is experiencing growth with prospects in geotechnical engineering, energy-efficient building materials, sustainable product range, etc. Technological improvements in waterproofing and integrating smart textiles have also been creating new pathways for growth in this sector.

Geotechnical Engineering Applications: There are woven textiles in road constructions, soil erosion, and stabilization that are presenting growth opportunities. These textiles provide added benefit to infrastructure construction as they increase the life span of any project at a lower cost making it suitable for mass construction projects across the globe.

Energy-efficient buildings: This change in scope in the construction industry where energy-efficient buildings are the order of the day has made woven textiles highly useful in insulation and vapor barrier systems. This development also provides room for the manufacturers to venture into the increasing green construction market that serves both the residential and commercial markets.

Water and Moisture Management Systems: Textiles that are woven have found their application in the roofing and foundation waterproofing industries. This trend is likely to create considerable market expansion prospects in advanced woven textile development for structural use for fabrics that are moisture-repellant occasions.

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Green Product Lines: Also, the recyclability of woven fabrics has a ready market due to the current trends in the construction industry. This trend will lead to manufacturers supplying eco-friendly and biodegradable woven goods to meet the needs of construction projects that are eco-aware.

Smart Textiles Integration: The movement of incorporating smart IV lion fabrics woven textiles whereby woven fabrics are embedded with smart technologies such as sensing devices that help to monitor the structural health of buildings has seeped into the construction industry. This paves the way for manufacturers to exploit intelligent materials that will help enhance the safety, function, and durability of structures.

The growth of woven textiles in the construction market will come mainly from industrial applications such as geosynthetic membranes and geocells woven textiles, thermal insulating slabs, etc. Recent improvements in waterproofing as well as innovations in smart textiles also suggest novel opportunities for growth in the market.

Woven Textile in Construction Market Driver and Challenges

The woven textile market in construction is impacted by new technology, legislation, and the increasing demand for affordable and adequate building materials. Nonetheless, high production costs, material sourcing challenges, and compliance with legal standards remain persistent issues.

The factors responsible for driving the woven textile market in construction include:

Growing Need for Sustainable Materials: Non-woven textiles, which are biodegradable and made from recycled materials, are being increasingly used due to their environmental benefits.

Technological Innovations: New technological advancements in textile manufacturing are improving the quality of woven fabrics, making them more applicable in construction.

Growing Infrastructure Development: The increasing demand for roads, housing, and other infrastructure in developing countries is boosting the use of non-woven textiles in geotechnical and construction sectors.

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Energy Efficiency Initiatives: The construction of energy-efficient structures and the use of energy-efficient materials are driving the demand for non-woven textiles in insulation and moisture management.

Cost-Effective Solutions: Non-woven materials complement traditional building materials, offering cost-effective solutions for large-scale construction projects.

Challenges in the woven textile market in construction include:

High Production Costs: Low-cost projects utilizing innovative and environmentally conscious fibers or technological designs may be overly expensive, especially in outdoor non-woven production.

Supply Chain and Raw Material Issues: Volatility in raw material prices and availability impacts production costs and the logistical supply chain.

Regulatory Compliance: Manufacturers face increasing pressure to meet stricter regulations related to sustainability and material safety, which may require additional investments in new processes or certifications.

The woven textile market in construction is capitalizing on the growing demand for affordable and environmentally friendly building materials due to advancements in technology and infrastructure development. However, high production costs, material sourcing challenges, and regulatory compliance remain key barriers to continued growth that need to be addressed.

List of Woven Textile in Construction Companies

Companies in the market compete on the basis of product quality offered. Major players in this market focus on expanding their manufacturing facilities, R&D investments, infrastructural development, and leverage integration opportunities across the value chain. Through these strategies woven textile in construction companies cater increasing demand, ensure competitive effectiveness, develop innovative products & technologies, reduce production costs, and expand their customer base. Some of the woven textile in construction companies profiled in this report include-

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Glen Raven

Saint-Gobain

Sioen Industries

Fabrics International

Bardell Industries

Woven Textile in Construction by Segment

The study includes a forecast for the global woven textile in construction by product type, application, and region.

Woven Textile in Construction Market by Product Type [Analysis by Value from 2018 to 2030]:

Woven Roving

Woven Yarn

Woven Textile in Construction Market by Application [Analysis by Value from 2018 to 2030]:

Swimming Pools

Architectural Domes

Others

Woven Textile in Construction Market by Region [Analysis by Value from 2018 to 2030]:

North America

Europe

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Asia Pacific

The Rest of the World

Country Wise Outlook for the Woven Textile in Construction Market

Woven textiles are increasingly being applied in the construction market. These textiles are used in applications such as insulation, roofing, water drainage, and geotextiles, which enhance building materials. In recent years, significant changes have been made in woven textile manufacturing technologies to make the process more ecologically sustainable, improve output quality, and meet the ever-increasing needs of the construction industry. It is noted that the majority of construction-related woven fabrics are experiencing strong growth in key markets, namely the U.S., China, Germany, India, and Japan.

United States: In the United States, woven textiles intended for the construction sector have seen significant improvements, driven by the increase in infrastructure projects demanding high-performance materials. Geotextile applications for soil erosion prevention, as well as woven insulations, are some of the new uses for woven fabrics. There is a growing shift toward the use of more sustainable and eco-friendly materials, driven by the increasing demand for greener construction practices. U.S. companies are applying modern science to improve the performance of these textiles by enhancing their moisture resistance and tensile strength. At the same time, the increased use of woven textiles in the design of energy-efficient buildings and roofing is also on the rise.

China: Due to their unique advantages, woven textiles have developed rapidly in the construction sector, particularly in geotechnical engineering and building materials. Woven geotextiles are primarily used in transportation, civil, and environmental engineering applications, including road construction, landfills, and drainage systems. In its bid to create world-class infrastructure, China is continuing to build more, which increases the demand for reliable and affordable materials. Woven textile manufacturers are well-equipped and purposefully improving the appearance and efficiency of these textiles to support the country's rapid urbanization. The growth of the market for environmentally sustainable woven textiles in construction in China is also attributed to the increased focus on construction sustainability.

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Germany: Germany's construction sector is showing a growing interest in woven textiles due to their high strength and multiple uses. These textiles are used in waterproofing, thermal insulation, geotextiles, and other applications. As part of Germany's development strategy, emphasis is placed on creating environmentally sound and recyclable products. German producers are among the industry leaders in the creation of new woven textiles, utilizing modern technologies that minimize energy consumption and increase protection from the elements. Under the country's development plan, the use of these textiles in green building construction is on the rise.

India: The woven textile market in India's construction sector is expanding, particularly in road construction, soil reinforcement, and erosion control. Road construction and drainage systems are significantly enhanced with the use of woven geotextiles, extending their lifespan and sustainability. India's construction industry is adopting woven textiles for improved efficiency and cost savings. Also driving demand is the focus on infrastructure development, such as smart cities and rural roads. In response to the growing emphasis on sustainability in the Indian construction sector, woven textiles are also being used in green building construction.

Japan: Japan has adopted many uses for woven textiles, such as in geotextiles, roadwork, and building thermal protection. The Japanese construction sector focuses on minimizing the negative environmental impacts of construction heating, and woven textiles play a key role in achieving these environmentally sound strategies. Furthermore, the demand for woven textiles in soil reinforcement and erosion-resistant architecture has been driven by Japan's focus on disaster-prone areas. Japanese manufacturers are implementing cutting-edge textile innovations to improve the quality and functionality of these materials. Woven textiles are also widely used in earthquake-resistant construction and waterproofing systems for both restoration and new projects, enhancing the durability and safety of structures.

Features of the Global Woven Textile in Construction Market

Market Size Estimates: Woven textile in construction market size estimation in terms of value ($B).

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Trend and Forecast Analysis: Market trends (2018 to 2023) and forecast (2024 to 2030) by various segments and regions.

Segmentation Analysis: Woven textile in construction market size by product type, application, and region in terms of value ($B).

Regional Analysis: Woven textile in construction market breakdown by North America, Europe, Asia Pacific, and Rest of the World.

Growth Opportunities: Analysis of growth opportunities in different product type, application, and regions for the woven textile in construction market.

Strategic Analysis: This includes M&A, new product development, and competitive landscape of the woven textile in construction market.

Analysis of competitive intensity of the industry based on Porter’s Five Forces model.

If you are looking to expand your business in this or adjacent markets, then contact us. We have done hundreds of strategic consulting projects in market entry, opportunity screening, due diligence, supply chain analysis, M & A, and more.

This report answers following 11 key questions:

Q.1. What are some of the most promising, high-growth opportunities for the woven textile in construction market by product type (woven roving and woven yarn), application (swimming pools, architectural domes, and others), and region (North America, Europe, Asia Pacific, and the Rest of the World)?

Q.2. Which segments will grow at a faster pace and why?

Q.3. Which region will grow at a faster pace and why?

Q.4. What are the key factors affecting market dynamics? What are the key challenges and business risks in this market?

Q.5. What are the business risks and competitive threats in this market?

Q.6. What are the emerging trends in this market and the reasons behind them?

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Q.7. What are some of the changing demands of customers in the market?

Q.8. What are the new developments in the market? Which companies are leading these developments?

Q.9. Who are the major players in this market? What strategic initiatives are key players pursuing for business growth?

Q.10. What are some of the competing products in this market and how big of a threat do they pose for loss of market share by material or product substitution?

Q.11. What M&A activity has occurred in the last 5 years and what has its impact been on the industry?

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