

# Nonwovens for Construction Market Report: Trends, Forecast and Competitive Analysis to 2031

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## Abstracts

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### Nonwovens for Construction Trends and Forecast

The future of the global nonwovens for construction market looks promising with opportunities in the residential, commercial building, industrial plant, and public construction markets. The global nonwovens for construction market is expected to grow with a CAGR of 7.4% from 2025 to 2031. The major drivers for this market are the increasing demand for lightweight & durable construction materials, the rising adoption of 3D printing technology in construction activity, and the growing need for waterproofing and roofing membranes.

Lucintel forecasts that, within the type category, spunbond nonwoven is expected to witness the highest growth over the forecast period.

Within the application category, residential is expected to witness the highest 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 Nonwovens for Construction Market

The nonwovens for construction market is undergoing transformative changes driven by advancements in technology, sustainability goals, and evolving industry needs. As the construction sector increasingly demands high-performance, eco-friendly materials, emerging trends are reshaping how nonwovens are produced and utilized. These trends reflect broader shifts toward efficiency, sustainability, and innovation, influencing both market dynamics and product offerings. The following outlines emerging trends in the nonwovens for construction market, shaping its future applications and market dynamics:

**Sustainable Materials:** The shift toward sustainability is a major trend in the nonwovens market. Manufacturers are integrating recycled fibers and bio-based materials into their products. Innovations include the use of post-consumer waste and biodegradable fibers to reduce environmental impact. This trend aligns with global environmental goals and appeals to increasingly eco-conscious consumers and regulatory standards, driving demand for greener construction solutions.

**High-Performance Functionalization:** Nonwovens are being developed with enhanced functionalities, such as improved thermal insulation, soundproofing, and moisture control. Advances in material science allow for the incorporation of additives and treatments that boost performance. These high-performance nonwovens address specific construction needs, such as energy efficiency and durability, making them essential for modern, high-quality building projects.

**Smart Nonwovens:** The integration of smart technologies into nonwovens is gaining traction. Features like embedded sensors for monitoring building conditions and real-time data collection are being incorporated. These smart nonwovens offer advanced capabilities for maintaining building integrity and optimizing energy use, thus enhancing the functionality of construction materials and contributing to more intelligent infrastructure management.

**Customized Solutions:** There is growing demand for nonwovens tailored to specific construction applications. Customization allows for materials that meet particular performance criteria, such as specific load-bearing capacities or resistance to environmental factors. This trend reflects the need for versatile and adaptable construction materials that can be engineered to suit unique project requirements, leading to improved overall project outcomes.

**Advancements in Production Techniques:** Innovations in production methods are enhancing the efficiency and quality of nonwovens. Techniques such as electrospinning and advanced bonding technologies are being employed to produce high-quality, durable materials. These advancements improve the physical properties of nonwovens and increase production efficiency, reducing costs and expanding the availability of advanced nonwoven materials.

These emerging trends are significantly reshaping the nonwovens for construction market by driving advancements in sustainability, performance, and technological integration. The focus on eco-friendly materials, enhanced functionality, and smart technology is transforming how nonwovens are produced and utilized in construction. As these trends continue to evolve, they are expected to shape the future of the market, emphasizing the need for innovative solutions that meet the complex demands of modern construction projects.

#### Recent Developments in the Nonwovens for Construction Market

Recent developments in the nonwovens for construction market reflect significant advancements in technology, sustainability, and application versatility. These changes are driven by the need for more efficient, eco-friendly, and high-performance materials to meet the evolving demands of the construction industry. Innovations in production methods, material properties, and applications are reshaping the landscape of nonwovens, offering new solutions for various construction challenges. Ongoing innovations and advancements in various sectors of the nonwovens for construction market are highlighted by recent developments:

**Increased Use of Recycled Materials:** The incorporation of recycled fibers into nonwovens is becoming prevalent. Manufacturers are integrating post-consumer and post-industrial waste materials to reduce environmental impact. This shift not only supports sustainability goals but also helps reduce the dependency on virgin raw materials. Recycled nonwovens offer comparable performance to traditional materials, making them a viable option for environmentally conscious construction projects.

**Enhanced Functional Properties:** Recent innovations have improved the functional properties of nonwovens, such as thermal insulation, acoustic performance, and moisture resistance. Advances in material science and production techniques have led to the development of nonwovens that meet

stringent performance requirements for energy efficiency and building safety. These enhancements make nonwovens a critical component in modern, high-performance construction applications.

**Smart Nonwoven Technologies:** The integration of smart technologies into nonwovens is gaining traction. This includes embedding sensors and other smart components that can monitor building conditions and provide real-time data. Such advancements allow for better maintenance and management of building systems, enhancing overall building performance and longevity. Smart nonwovens offer the potential for improved energy management and structural health monitoring.

**Advancements in Production Techniques:** New production techniques, such as electrospinning and advanced bonding methods, are improving the quality and efficiency of nonwovens. These innovations enable the creation of nonwovens with superior properties, such as increased durability and finer fiber structures. Enhanced production processes also lead to cost reductions and increased availability of high-performance nonwoven materials, benefiting the overall market.

**Growth in Specialized Applications:** The demand for nonwovens in specialized construction applications is increasing. This includes uses in geotextiles, erosion control, and road construction. The development of nonwovens tailored for these specific applications addresses unique challenges and requirements, such as soil stabilization and drainage. Specialized nonwovens offer targeted solutions that enhance performance and functionality in various construction scenarios.

These recent developments are significantly impacting the nonwovens for construction market by advancing sustainability, performance, and technology integration. The use of recycled materials and enhanced functional properties aligns with global environmental goals and building standards. Innovations in smart technologies and production methods are improving material quality and efficiency. The growth in specialized applications reflects a broader trend toward tailored solutions in construction. Collectively, these developments are driving the evolution of the nonwovens market, positioning it as a crucial component in modern construction practices.

## Strategic Growth Opportunities for Nonwovens for Construction Market

The nonwovens for construction market is ripe with strategic growth opportunities driven by evolving construction needs and technological advancements. As the industry demands more specialized and high-performance materials, nonwovens are increasingly recognized for their versatility and functionality. Key applications across various construction segments present significant growth potential, offering innovative solutions that address specific challenges while meeting environmental and efficiency standards. Some key strategic growth opportunities for this market include:

**Geotextiles for Soil Stabilization:** Nonwovens used as geotextiles in soil stabilization are experiencing increased demand due to their effectiveness in erosion control and soil reinforcement. These materials improve the stability of foundations and roadbeds, reducing maintenance costs and enhancing infrastructure longevity. As urbanization and infrastructure projects expand globally, the use of nonwovens for geotextile applications presents a substantial growth opportunity by addressing critical soil management issues and supporting sustainable construction practices.

**Building Insulation:** Nonwovens offer advanced thermal insulation solutions that are gaining traction in the construction market. Their ability to provide high thermal resistance and energy efficiency makes them ideal for residential and commercial buildings. This application supports the growing emphasis on energy-efficient buildings and green construction practices. With increasing regulations and consumer demand for energy-efficient solutions, nonwovens in building insulation represent a significant growth segment.

**Moisture Barriers and Waterproofing:** Nonwovens used as moisture barriers and waterproofing membranes are critical for protecting buildings from water damage. These materials provide effective barriers against moisture ingress, enhancing the durability and longevity of construction projects. As climate variability and extreme weather events become more common, the demand for reliable moisture control solutions is rising. Nonwovens in this application help meet these needs, presenting a key growth opportunity in the market.

**Acoustic Insulation:** Nonwovens are increasingly used for acoustic insulation due to their sound-absorbing properties. They are employed in walls, ceilings, and floors to improve acoustic performance and reduce noise pollution. As urban areas grow and noise regulations become more stringent, the demand for effective acoustic solutions is increasing. Nonwovens provide a cost-effective and efficient method for noise control, creating a significant growth opportunity in

both residential and commercial construction markets.

**Prefabricated Construction Elements:** The use of nonwovens in prefabricated construction elements, such as modular panels and pre-insulated walls, is expanding. These materials offer benefits such as reduced construction time, lower labor costs, and improved quality control. As prefabrication becomes more prevalent in the construction industry, nonwovens play a key role in enhancing the efficiency and performance of prefabricated components, offering substantial growth potential in this segment.

The strategic growth opportunities in the nonwovens for construction market highlight the material's versatility and adaptability to various applications. From soil stabilization and building insulation to moisture barriers and acoustic control, nonwovens offer innovative solutions that align with current construction trends and demands. The expansion into prefabricated elements further underscores the material's importance in modern construction practices. These opportunities are driving the evolution of the nonwovens market, positioning it as a crucial player in addressing the industry's diverse and growing needs.

### Nonwovens for Construction Market Driver and Challenges

The nonwovens of the construction market are shaped by a range of drivers and challenges influenced by technological advancements, economic conditions, and regulatory frameworks. These factors impact the development, adoption, and performance of nonwoven materials in construction applications. Understanding these dynamics is crucial for stakeholders to navigate the market effectively, capitalize on emerging opportunities, and address potential obstacles.

The factors driving the nonwovens for construction market include:

**Technological Advancements:** Innovations in nonwoven manufacturing techniques, such as advanced bonding methods and electrospinning, have significantly improved material properties and performance. These advancements enable the production of nonwovens with enhanced durability, functionality, and customization options. Technological progress drives market growth by expanding the range of applications and improving the efficiency and cost-effectiveness of nonwoven materials.



**Sustainability Trends:** The growing emphasis on sustainability and environmental responsibility is a major driver for the nonwoven market. Manufacturers are increasingly adopting recycled and biodegradable materials to align with green building standards and reduce environmental impact. This shift toward eco-friendly nonwovens meets regulatory requirements and consumer preferences for sustainable products, driving demand across various construction segments.

**Rising Construction Activity:** Increased global construction activity, driven by urbanization and infrastructure development, is fueling demand for nonwovens. Nonwoven materials are used in a variety of applications, such as insulation, geotextiles, and moisture barriers. The expansion of construction projects, including residential, commercial, and infrastructure, creates opportunities for nonwoven manufacturers to supply materials that meet diverse and growing needs.

**Energy Efficiency Regulations:** Stricter regulations and standards aimed at improving energy efficiency in buildings are driving the adoption of nonwovens with superior thermal and acoustic insulation properties. Nonwovens contribute to meeting these regulatory requirements by enhancing the energy performance of buildings. Compliance with energy efficiency standards is essential for market growth, as it encourages the use of high-performance nonwoven materials.

**Innovation in Material Applications:** The development of specialized nonwovens for unique construction applications, such as smart materials and prefabricated components, is expanding market opportunities. Innovations in nonwoven technology allow for the creation of materials with tailored properties, addressing specific challenges in construction. This trend drives growth by offering new solutions and increasing the versatility of nonwoven applications.

Challenges in the nonwovens for construction market include:

**Raw Material Costs:** Fluctuations in the prices of raw materials, such as polymers and fibers, impact the cost of nonwoven production. Volatility in material prices can affect profitability and pricing strategies for nonwoven manufacturers. Managing raw material costs is crucial for maintaining competitive pricing and ensuring the financial sustainability of nonwoven products in the market.

**Regulatory Compliance:** Adhering to various regulatory standards and building codes can be challenging for nonwoven manufacturers. Compliance with regulations related to environmental impact, performance criteria, and safety standards requires ongoing investment in testing and certification. Navigating complex regulatory landscapes can be resource-intensive and may affect market entry and expansion efforts.

**Market Competition:** The nonwovens market is highly competitive, with numerous players vying for market share. Intense competition can lead to pricing pressures and necessitate continuous innovation to differentiate products. Companies must invest in research and development to stay ahead of competitors and meet evolving customer demands while maintaining cost-effectiveness.

The nonwovens for the construction market are influenced by significant drivers such as technological advancements, sustainability trends, rising construction activity, energy efficiency regulations, and innovation in material applications. However, challenges such as raw material costs, regulatory compliance, and market competition also impact the industry. Overall, while these drivers present opportunities for growth and innovation, the challenges require strategic management to ensure market success. Addressing these factors effectively will be key to capitalizing on emerging trends and navigating the evolving landscape of the nonwoven market.

#### List of Nonwovens Companies for Construction Market

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 nonwovens companies for construction market cater increasing demand, ensure competitive effectiveness, develop innovative products & technologies, reduce production costs, and expand their customer base. Some of the nonwovens companies for construction market profiled in this report include-

Berry Global

Ahlstrom



Johns Manwile

Freudenberg

Lydall

Suominen

JH Ziegler

TWE Group

Sandler

Xinlong Holding

## Nonwovens for Construction by Segment

The study includes a forecast of the global nonwovens for construction market by type, application, and region.

### Nonwovens for Construction Market by Type [Analysis by Value from 2019 to 2031]:

Spunbond Nonwovens

Spunlace Nonwovens

Needle Punched Nonwovens

### Nonwovens for Construction Market by Application [Analysis by Value from 2019 to 2031]:

Residential

Commercial Building

Industrial Plant

Public Construction

Others

Nonwovens for Construction Market by Region [Analysis by Value from 2019 to 2031]:

North America

Europe

Asia Pacific

The Rest of the World

Country Wise Outlook for the Nonwovens for Construction Market

The nonwovens for the construction market is evolving rapidly as technological innovations, regulatory changes, and shifting market demands drive advancements in this sector. The nonwovens for construction market is witnessing substantial growth globally, driven by increased demand from various industries such as residential, commercial buildings, industrial plants, and public construction. Major players in the market are expanding their operations and forming strategic partnerships to strengthen their positions. The content below highlights recent developments by major nonwovens for construction producers in key regions: the USA, China, Germany, India, and Japan.

**United States:** In the U.S., the nonwoven market is seeing significant advancements in sustainable materials and production techniques. There is a strong push toward incorporating recycled fibers and reducing environmental impact through eco-friendly manufacturing processes. Innovations such as advanced filtration and insulation properties are increasingly in demand to meet energy efficiency standards and regulatory requirements. The market is also experiencing growth in applications for high-performance nonwovens in both residential and commercial construction.

**China:** China's nonwovens market is expanding rapidly due to the country's booming construction industry and infrastructure projects. Recent developments

include the adoption of high-strength nonwoven materials and improvements in production technology to enhance performance. There is a focus on increasing the use of advanced nonwovens in applications like road construction and erosion control. Additionally, China is investing in research and development to improve material durability and address environmental concerns associated with construction.

**Germany:** Germany is at the forefront of incorporating high-performance and sustainable nonwovens in construction. Recent developments include the integration of innovative production methods and the use of advanced additives to enhance material properties, such as thermal insulation and acoustic performance. The emphasis on meeting stringent environmental regulations and green building standards is driving the demand for eco-friendly nonwovens. Germany's focus on high-quality materials reflects its commitment to energy efficiency and sustainable construction practices.

**India:** In India, the nonwovens market is growing with a focus on affordability and functionality. Developments include the introduction of cost-effective nonwoven materials to cater to the rapidly expanding construction sector. Innovations are aimed at improving the performance and durability of nonwovens to meet the needs of large-scale infrastructure projects. There is also an emphasis on enhancing the quality of materials to withstand the diverse and challenging environmental conditions found in India.

**Japan:** Japan's nonwoven market is experiencing advancements driven by the need for high-quality, durable materials suitable for seismic and climatic conditions. Recent developments include the use of advanced nonwoven technologies and the integration of smart features, such as embedded sensors for building monitoring. The focus is on improving material performance in earthquake-resistant and energy-efficient buildings. Japan's commitment to innovation is evident in its approach to addressing specific construction challenges and enhancing overall building safety and efficiency.

## Features of the Global Nonwovens for Construction Market

**Market Size Estimates:** Nonwovens for construction market size estimation in terms of value (\$B).

**Trend and Forecast Analysis:** Market trends (2019 to 2024) and forecast (2025 to 2031) by various segments and regions.

**Segmentation Analysis:** Nonwovens for construction market size by type, application, and region in terms of value (\$B).

**Regional Analysis:** Nonwovens for construction market breakdown by North America, Europe, Asia Pacific, and Rest of the World.

**Growth Opportunities:** Analysis of growth opportunities in different types, applications, and regions of the nonwovens for construction market.

**Strategic Analysis:** This includes M&A, new product development, and competitive landscape of the nonwovens for 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 of the nonwovens for construction market by type (spunbond nonwovens, spunlace nonwovens, and needle punched nonwovens), application (residential, commercial building, industrial plant, public construction, 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?

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?

## Contents

### **1. EXECUTIVE SUMMARY**

### **2. GLOBAL NONWOVENS FOR CONSTRUCTION MARKET : MARKET DYNAMICS**

2.1: Introduction, Background, and Classifications

2.2: Supply Chain

2.3: Industry Drivers and Challenges

### **3. MARKET TRENDS AND FORECAST ANALYSIS FROM 2019 TO 2031**

3.1. Macroeconomic Trends (2019-2024) and Forecast (2025-2031)

3.2. Global Nonwovens for Construction Market Trends (2019-2024) and Forecast (2025-2031)

3.3: Global Nonwovens for Construction Market by Type

3.3.1: Spunbond Nonwovens

3.3.2: Spunlace Nonwovens

3.3.3: Needle Punched Nonwovens

3.4: Global Nonwovens for Construction Market by Application

3.4.1: Residential

3.4.2: Commercial Building

3.4.3: Industrial Plant

3.4.4: Public Construction

3.4.5: Others

### **4. MARKET TRENDS AND FORECAST ANALYSIS BY REGION FROM 2019 TO 2031**

4.1: Global Nonwovens for Construction Market by Region

4.2: North American Nonwovens for Construction Market

4.2.1: North American Market by Type: Spunbond Nonwovens, Spunlace Nonwovens, and Needle Punched Nonwovens

4.2.2: North American Market by Application: Residential, Commercial Building, Industrial Plant, Public Construction, and Others

4.3: European Nonwovens for Construction Market

4.3.1: European Market by Type: Spunbond Nonwovens, Spunlace Nonwovens, and Needle Punched Nonwovens

4.3.2: European Market by Application: Residential, Commercial Building, Industrial



Plant, Public Construction, and Others

4.4: APAC Nonwovens for Construction Market

4.4.1: APAC Market by Type: Spunbond Nonwovens, Spunlace Nonwovens, and Needle Punched Nonwovens

4.4.2: APAC Market by Application: Residential, Commercial Building, Industrial Plant, Public Construction, and Others

4.5: ROW Nonwovens for Construction Market

4.5.1: ROW Market by Type: Spunbond Nonwovens, Spunlace Nonwovens, and Needle Punched Nonwovens

4.5.2: ROW Market by Application: Residential, Commercial Building, Industrial Plant, Public Construction, and Others

## **5. COMPETITOR ANALYSIS**

5.1: Product Portfolio Analysis

5.2: Operational Integration

5.3: Porter's Five Forces Analysis

## **6. GROWTH OPPORTUNITIES AND STRATEGIC ANALYSIS**

6.1: Growth Opportunity Analysis

6.1.1: Growth Opportunities of the Global Nonwovens for Construction Market by Type

6.1.2: Growth Opportunities of the Global Nonwovens for Construction Market by Application

6.1.3: Growth Opportunities of the Global Nonwovens for Construction Market by Region

6.2: Emerging Trends in the Global Nonwovens for Construction Market

6.3: Strategic Analysis

6.3.1: New Product Development

6.3.2: Capacity Expansion of the Global Nonwovens for Construction Market

6.3.3: Mergers, Acquisitions, and Joint Ventures in the Global Nonwovens for Construction Market

6.3.4: Certification and Licensing

## **7. COMPANY PROFILES OF LEADING PLAYERS**

7.1: Berry Global

7.2: Ahlstrom

7.3: Johns Manville

- 7.4: Freudenberg
- 7.5: Lydall
- 7.6: Suominen
- 7.7: JH Ziegler
- 7.8: TWE Group
- 7.9: Sandler
- 7.10: Xinlong Holding

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