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

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Abstracts

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Non Woven Textile in Marine Trends and Forecast

The future of the global nonwoven textile in the marine market looks promising with opportunities in the boat hull markets. The global nonwoven textile in the marine market is expected to grow with a CAGR of 4.3% from 2024 to 2030. The major drivers for this market are the increasing demand for eco-friendly materials in marine applications, growing awareness of the benefits of non-woven textiles for marine environments, and a regulatory push toward sustainable solutions for marine industries.

> Lucintel forecasts that, within the product type category, non-crimp is expected to witness higher growth over the forecast period.
>
> Within the application category, boat hulls are 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 Non Woven Textile in Marine Market

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There are several nascent developments taking place within the non-woven textile in the marine market that will transform it. Some of these trends, aimed at performance improvement, innovation, and sustainability, are notable in different regions.

Shift Towards Sustainable Materials: Global awareness of environmental protection and regulations has necessitated a growing market for eco-friendly, biodegradable, and recyclable non-woven materials. The industry is moving towards the manufacturing of textiles from natural and recycled materials in response to veganism and other sustainability drives. This transition is beneficial as it not only reduces the amount of waste generated, but products sold in green markets are also easily marketable.

Increased Focus on Durability and Performance: Non-woven textiles are finding more advanced uses in the shipbuilding and marine industries, such as for insulation, noise reduction, and filtration, due to their superior durability and resistance to harsh sea conditions. This trend is prompting the development of textiles with better durability, water and UV resistance, and improved mechanical properties, which will add more value to maritime textiles.

Adoption of Smart Textiles: Smart textiles are composed of conventional non-woven substrates with integrated active and passive features or sensors. Their application in demanding maritime environments is increasing. They can assist in the monitoring of temperature, humidity, and chemicals, contributing positively to the safety and effectiveness of marine craft. This highlights the fast-paced innovation trend and the new scope for real-time and predictive maintenance in the marine environment.

Growth of Marine Filtration Systems: A major share of marine non-woven textiles is being used in the development of sophisticated water filtration systems, which are indispensable for the marine industry. These textiles are becoming critical due to their high day-to-day operating efficiency in specific uses such as ballast water treatment systems, which are now mandatory under international ship laws. Thus, the market for non-woven textiles in water treatment and purification continues to develop.

Application of Non-Woven in Marine Coatings: Non-woven fabrics are being used to develop next-generation marine coatings, such as antifouling and anticorrosion coatings for ships and marine facilities. These textiles contribute to

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better corrosion-resistant coatings that are essential for the safety and effectiveness of vessels. The use of non-woven materials in coatings is appreciated because they have strong adhesion, and are both hard and flexible.

These trends have resulted in opportunities to create more sustainable products, improve the performance of materials, and foster innovation with smart textiles within the marine non-woven textile market. Such changes are not only advantageous to manufacturers but are also aligned with the increasing demand for performance and environmentally friendly solutions within the marine industry.

Recent Developments in the Non Woven Textile in Marine Market

Several key developments are influencing the non-woven textile market in the marine market, especially due to the increasing demand for Sustainability, advanced performance, and innovation.

Introduction of Recyclable Non-Woven Materials: The emphasis on sustainability has seen new forms of non-woven textiles that are recyclable and biodegradable being developed and used in different spheres of the marine environment. This development seeks to address the increasing menace of polluting the oceans and the lifespan of textile products. Recyclable textiles reduce waste amount in the industry which assists in meeting international environmental regulations as well as providing the functional needs for marine purposes.

Making Optimized Insulation Materials: Non-woven textiles are more frequently employed as performance insulators in the construction of marine vessels. Better thermal and acoustic insulators are offered by these materials which enhance energy efficiency and reduction of noise in ships. The emergence of new lightweight and long-lasting non-woven thermal insulation materials currently being introduced into the market has revolutionized the shipbuilding and ship repair processes.

Development of the Marine Water Purification Systems: Non-woven textiles are now part of advanced shipboard water filtration systems. These systems are critical in the treatment of ballast water and the discharge of ballast water into the oceans. The new non-woven materials are also advanced in filtration effectiveness and the longevity of such systems making it greener and meeting outgrowing international standards.

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Growth in Non-Woven Coatings for Vessels: The use of non-woven textiles in marine coatings is promoting the selling of the market. Such fabrics possess improved preservation features and contribute to reduced amount of corrosion and fouling on ship hulls. Novel technologies on non-woven are enhancing the coating performance by increasing their flexibility, weather resistance, and longevity.

Growth in the Use of Smart Textile: The incorporation of smart textile technologies into marine applications is another key trend. Such textiles could take account of climate conditions monitor them, and render the relevance of the vessels better and safer. This kind of technology has many applications in predictive maintenance where conditions are monitored to avoid breakdown or improve efficiency in operations.

These trends are further influencing the market of non-woven textiles in marine applications regarding performance, technology, and eco-friendliness. As the marine industry develops, there is an increasing trend towards the use of non-woven textiles in designing and manufacturing sails which are lighter and friendlier to the environment.

Strategic Growth Opportunities for Non Woven Textile in Marine Market

There are strategic growth opportunities existing in the non-woven textile segment in the marine market, which are bolstered by new developments in applications and technologies. Key opportunities include in the following areas:

Marine Insulation Growth: Non-woven textiles are becoming the main component utilized for marine insulation on board vessels. This segment offers good prospects for growth as enhanced insulation increases energy efficiency and comfort onboard ships. With increasing energy efficiency regulations, the market demand for lightweight, high-performance non-woven materials for insulation will also increase.

Development of Filtration System: Another exciting opportunity for non-woven textiles lies in the rising demand for ballast water treatment due to new environmental protection requirements. Nonwoven filter materials are thus in great demand for marine water purifying systems. Many companies will benefit in the competitive market, from the production of high-performing efficient, and

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durable non-woven materials for these types of systems.

Marine Coatings and Protective Textiles: Marine coatings to safeguard vessels from corrosion and fouling will increasingly incorporate non-woven textiles into their formulations. The increase in demand for better marine protection from environmental factors has created a market for non-woven textiles in coating applications. The clear promise of additional revenues for the manufacturers is to create fabrics and textiles with improved protective qualities and prolonged labor terms.

Integration of smart textiles: Marine applications have a great promise in the incorporation of such smart textiles which involves real-time data collection with the use of embedded systems. These types of textiles can serve to assist in the evaluation of vessel efficiency, environmental parameters, and structural status. With the immense growth of this technology in the marine sector, manufacturers are presented with chances to design and develop new products that support operational efficiency.

Products that are Green and Sustainable: There is an increased awareness of the need to use green materials and this trend cuts across the entire marine sector. There is a market for non-woven textiles made of biodegradable recyclable or renewable materials and this will help fulfill the above need. Non-woven textiles for marine applications will now include environment-friendly non-woven textiles which have excellent properties thus benefiting from the current trends.

These growth opportunities show that non-woven textiles are going to be at the center stage of marine application development. Improved insulation, better filtration, and reduction of weight through non-woven textiles in the marine environment are trends that will see the demand for non-woven eliminates grow in the marine industry.

Non Woven Textile in Marine Market Driver and Challenges

The non-woven textile market in the marine industry is influenced by various factors, including technological, economic, and legal aspects. Key drivers and challenges include:

The factors responsible for driving the non-woven textile market in the marine industry

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include:

Technological Development: New developments in non-woven textiles are enhancing several applications, such as thermal and acoustic insulation, filtration, and coatings. These materials now offer improvements in durability, weathering resistance, and in-service performance in tough marine environments.

Environmental Concerns: The imposition of stricter international maritime pollution prevention laws is driving the demand for green, recyclable, and biodegradable products in the marine industry. Non-woven textiles are more versatile and environmentally friendly, making them the preferred choice for materials requiring compliance.

Growing Demand for Energy-Efficient Solutions: As energy conservation becomes increasingly critical within the marine industry, non-woven textiles are promoting fuel efficiency in vessels and reducing environmental pollutants. These materials are used in ship insulation, ship coatings, and other applications.

Demand for Enhanced Safety Features: Innovations in textiles, such as the development of composite smart textiles that integrate sensors for tracking environmental and operational conditions, are enhancing the safety and preventive maintenance of marine operations.

Expansion of the Global Shipping Industry: As the volume of international trade and cargo shipping increases, there is a greater demand for robust and effective materials, including non-woven textiles, to support the growing shipping industry.

Challenges in the non-woven textile market in the marine industry include:

Cost Pressures: Producing high-quality non-woven fabrics, especially those made from non-traditional or green materials, incurs significant costs. This presents adoption barriers, particularly in developing markets.

Material Performance in Extreme Conditions: Marine environments require non-woven fabrics that are strong and capable of withstanding extreme conditions, such as saltwater, ultraviolet rays, and friction. The challenge is to achieve high

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performance while keeping costs low.

Regulatory Hurdles: As regulations continuously evolve, manufacturing organizations face pressure to make adjustments, especially regarding sustainability and waste management. These changes bring additional costs and operational risks.

Though the growth of the non-woven textile market in the marine industry has been driven by technological improvements and regulatory initiatives promoting such materials, challenges related to cost, material performance, and regulatory compliance persist. Manufacturers who can overcome these challenges while capitalizing on new trends will be well-positioned in the market.

List of Non Woven Textile Companies in Marine 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 non woven textile companies in marine market cater increasing demand, ensure competitive effectiveness, develop innovative products & technologies, reduce production costs, and expand their customer base. Some of the non woven textile companies in marine market profiled in this report include-

Owens Corning

Jushi Group

Chongqing Polycomp International Corporation

Taishan Fiberglass

Taiwan Glass Group

Nippon Electric Glass

Sichuan Weibo

3B the Fiber Glass Company (Goa Glass Fiber)

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Johns Manville Corporation

Nitto Boseki

Non Woven Textile in Marine by Segment

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

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

Non-Crimp

CFM/CSM

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

Boat Hulls

Others

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

North America

Europe

Asia Pacific

The Rest of the World

Country Wise Outlook for the Non Woven Textile in Marine Market

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The nonwoven textiles market has begun to take over due to the increasing demand for lightweight, strong, and environmentally friendly materials in the marine market. Protective textiles, following nonwovens, are utilized in the manufacturing of filtration systems, insulation, tapes, marine paint, and other products due to their strong, water-resistant, and flexible characteristics. The emergence of such changes is also mainly driven by the introduction of new eco-friendly materials in developed countries. In this context, distinct countries such as the U.S., China, Germany, India, and Japan are exhibiting different patterns in terms of the application of nonwoven textiles in the marine industry.

United States: In the United States, significant progress has been made in developing composite materials specifically for marine insulation and filtration systems within the nonwoven textile market. Due to strict environmental policies and the need for greener products, manufacturers are increasingly adopting nonwoven textiles for applications such as boat coverings, marine insulation, and water filtration systems. Additionally, interest in developing bio-based and recyclable nonwoven materials has risen, aligning with the country's environmental goals. Moreover, the U.S. marine industry is using nonwoven textiles to enhance the efficiency and reliability of marine vessels.

China: The expansion of the nonwoven textile market in China's marine industry is due to the active initiatives of the government in supporting the development of green technologies and the growing capacity of domestic production. The shipbuilding industry in China, the largest in the world, has created a demand for nonwoven textiles for applications such as insulation, soundproofing, and filtration systems. The region is also investing heavily in research and development of nonwoven materials with new and unique characteristics that can improve fuel economy and extend the lifespan of vessels. Additionally, China is promoting sustainable, environmentally friendly methods of textile production that support the global trend toward greener marine technologies.

Germany: Germany holds the top position in the development of highly efficient nonwoven textiles for marine applications, particularly in advanced filters and water-resistant textiles. The country's strong focus on engineering and sustainability has increased the use of high-performance nonwoven textiles, especially performance fabrics that are also environmentally friendly. Nonwoven textiles are applied to both hull and deck covers and are used in eco-friendly maintenance and repair of boats. Under the European Green Deal, Germany is

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also advocating for new solutions in marine textiles without increasing the carbon footprint of production processes and is developing novel forms of textile waste management.

India: The economic growth of India has led to the expansion of various industrial activities, such as shipbuilding, which impacts the growth of the nonwoven textile industry within the shipbuilding sector. Nonwoven textiles, being lightweight and durable, are used in the construction of boat coverings, water filtration systems, and thermal insulation in the marine industry. Indian manufacturers are also exploring alternative methods of producing nonwoven materials that will be more cost-effective, given the growth of the textile industry in the country. There is growing demand for nonwoven textiles from India that meet international environmental and performance standards in the marine sector, as the country seeks to increase its share of the global market.

Japan: Japan is known for its highly innovative technologies and advanced levels of development in marine production. Recent developments in advanced nonwoven textiles are finding applications in the maritime industry. Japanese manufacturers continue to lead in the production of nonwoven fabrics for insulation, acoustics, and protective coatings in ships, especially high-end vessels fabricated for the luxury market. Additionally, Japan's maturing society has created a market for other energy-efficient and green marine products, resulting from the use of nonwoven textiles.

Features of the Global Non Woven Textile in Marine Market

Market Size Estimates: Non woven textile in marine market size estimation in terms of value ($B).

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

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

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

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Growth Opportunities: Analysis of growth opportunities in different product types, applications, and regions for the non woven textile in marine market.

Strategic Analysis: This includes M&A, new product development, and competitive landscape of the non woven textile in marine 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 non woven textile in marine market by product type (non-crimp and CFM/CSM), application (boat hulls 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

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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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