

United States Textile Chemicals Market By Product (Coating & Sizing Chemicals, Colorants & Auxiliaries, Finishing Agents, Surfactants, Others), By Application (Apparel, Home Furnishing, Technical Textiles, Others), By Region, Competition, Forecast and Opportunities, 2020-2030F

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Report description:

United States Textile Chemicals Market was valued at USD 3.96 billion in 2024 and is anticipated to project steady growth in the forecast period with a CAGR of 4.02% through 2030. It can be inferred that the United States is expected to play a significant role in this growth, given its strong textile industry and innovative chemical sector. With its advanced manufacturing capabilities and research and development initiatives, the United States is well-positioned to drive the growth of the textile chemicals market. The country's extensive network of textile manufacturing facilities and expertise in developing sustainable and functional textiles further contribute to its prominence in the industry. The U.S. textile and apparel industry is a major segment of the manufacturing sector. As reported by the National Council of Textile Organizations, the textile industry in the U.S. employed more than 500,000 individuals and recorded shipments amounting to USD 64.8 billion in 2023.

The demand for textile chemicals in the United States is fueled by the robust growth in textile production, particularly in developing economies. As these economies experience rapid industrialization and urbanization, the demand for textiles continues to rise, driving the need for advanced textile chemicals. The United States, being a major player in the global textile market, is poised to meet this demand by providing high-quality, sustainable, and functional textiles. The country's expertise in chemical formulations ensures the development of innovative and effective textile chemicals that cater to the evolving needs of the industry.

The United States textile chemicals market is poised for substantial growth in the coming years. Factors such as increased textile production, the demand for high-quality textiles, and advancements in chemical formulations are expected to propel this growth. As the industry continues to evolve, the significance of the United States in the global textile chemicals market is set to increase even further. With its strong textile industry, innovative chemical sector, and commitment to sustainable practices, the United

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States will continue to be a key player driving the growth and development of the textile chemicals market worldwide.

Key Market Drivers

Growth in Textile Industry

The rising consumer demand for high-quality, durable, and functional textiles in the United States has necessitated the use of advanced textile chemicals. These chemicals, such as fabric finishes and coatings, play a crucial role in enhancing the textile properties, including their durability, colorfastness, and resistance to fire, water, and other environmental factors. By incorporating these innovative chemicals into the manufacturing process, textile producers are able to meet the increasing expectations of consumers for long-lasting and high-performing textiles. The increasing importance of sustainable practices in the textile industry is also contributing to the growth of the textile chemicals market. As per the National Council of Textile Organizations, the value of U.S. textile and apparel shipments reached USD 65.8 billion in 2022, an increase from USD 64 billion in 2021. The U.S. remains the third-largest exporter of textile-related products globally. As more and more consumers are becoming conscious of the environmental impact of their purchasing decisions, textile producers are actively seeking eco-friendly chemicals that can improve textile quality without harming the environment. These sustainable textile chemicals not only help reduce the carbon footprint of the industry but also add value to the final products, attracting environmentally conscious consumers. Therefore the growth in the textile industry is a major driver of the United States textile chemicals market. As the textile sector continues to flourish and the focus on sustainable practices intensifies, the demand for textile chemicals is set to rise, fueling further growth in this market. By continuously innovating and adopting sustainable solutions, the textile industry can meet the evolving demands of consumers while minimizing its impact on the environment.

Surge in Technological Advancements

The textile industry has always been a fertile ground for innovation. With the rise in technological advancements, the industry have witnessed the development of cutting-edge textile chemicals that significantly enhance the durability, colorfastness, and resistance of textiles to various elements. This has resulted in a substantial surge in demand for these high-performance chemicals. One of the most significant drivers of the textile chemicals market is the growing focus on sustainability. There is now an increasing demand for eco-friendly chemicals that not only improve textile quality but also minimize environmental impact. Technological breakthroughs have played a crucial role in the production of these sustainable chemicals, leading to a remarkable increase in their market share. Digitalization has emerged as a game-changer in the textile chemicals market. The integration of digital technologies has revolutionized chemical processes, resulting in significant cost savings, improved operational efficiency, and enhanced product quality. This digital transformation has further accelerated the growth of the textile chemicals market in the United States. The technological advancements continue to shape and drive the United States textile chemicals market. As these innovations evolve, they will undoubtedly shape the future of the textile industry. The demand for advanced and sustainable textile chemicals is expected to witness a continuous rise, providing further impetus to the market's growth and sustainability efforts.

Rising Demand for Sustainable and Eco-Friendly Textile Products

One of the primary drivers of the United States textile chemicals market is the increasing demand for sustainable and eco-friendly textile products. Consumers are becoming more environmentally conscious, opting for textiles made with biodegradable, non-toxic, and eco-friendly materials. In October 2024, H&M Group, a global leader in affordable apparel production, has long been known for its fast fashion model, with much of its clothing discarded after only a few uses. Now, the company is taking a significant step towards sustainability by opening its first U.S. factory in Mebane, North Carolina. This factory will utilize innovative technology developed in the state, aimed at minimizing the environmental impact of the fashion industry.

This shift towards sustainable textiles has pushed manufacturers to seek innovative chemical solutions that minimize environmental impact. Textile chemicals, such as water-based dyes, organic finishes, and eco-friendly bleaches, are gaining popularity as they meet the growing consumer demand for sustainable fashion. In response, companies are incorporating these green alternatives into their production processes, leading to the adoption of chemical products that align with eco-conscious trends. The demand for environmentally friendly textiles is expected to drive further growth in the textile chemicals market, as manufacturers increasingly focus on reducing harmful chemical usage and water consumption.

Expansion of the Apparel and Fashion Industry

The expansion of the U.S. apparel and fashion industry also plays a major role in the growth of the textile chemicals market. The

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demand for new fabric types, textures, and finishes drives the use of specialized chemicals for textile processing. The rise of fast fashion and the need for diverse product offerings have pushed manufacturers to experiment with new chemical formulations to achieve specific characteristics in fabrics, such as softening agents, anti-wrinkle finishes, and color-fastness. As fashion trends continue to evolve, there is a need for textile chemicals that can produce fabrics with desired characteristics, including enhanced durability, color retention, and comfort. Additionally, with the increasing interest in custom-made and personalized clothing, chemical solutions for dyeing, printing, and fabric treatments are essential in providing variety and meeting consumer demands.

Key Market Challenges

Volatility in Price of Raw Materials

Fluctuating raw material prices can have a profound impact on the cost of production for textile chemicals. When the costs of these materials increase rapidly, it impedes the profit margins of textile manufacturers. This volatility can be attributed to various factors, including supply chain disruptions, changes in commodity markets, and shifts in the global economy. One of the key factors contributing to the volatility of raw material prices in the textile chemicals market is the dependence on both natural and synthetic fibers. The purchase costs of these fibers can be unpredictable, further exacerbating the overall instability of raw material prices. The recent global events have intensified these fluctuations, driving up the cost of raw materials even more. Given these challenges, it becomes crucial for industry players in the United States textile chemicals market to devise effective strategies to mitigate the impact of these fluctuations. This includes exploring alternative sourcing options, implementing risk management practices, and fostering strong relationships with suppliers. Such measures will not only help in stabilizing the market but also ensure its long-term growth and sustainability. The United States textile chemicals market is currently on an upward trajectory, the volatility in raw material prices poses a significant challenge. By adopting proactive approaches and adapting to the changing dynamics, industry players can navigate through these fluctuations and pave the way for a stable and thriving market.

Key Market Trends

Growing Demand of Smart Textiles

Smart textiles, also known as electronic textiles or e-textiles, are fabrics that have been ingeniously designed with digital components such as sensors, microcontrollers, and conductive threads. These innovative textiles not only interact with the wearer or the environment but also possess the ability to collect and transmit data, enabling a wide range of exciting applications. The demand for these cutting-edge textiles is rapidly rising across various industries. In the world of fashion and entertainment, smart textiles are revolutionizing the way we dress and express ourselves, with interactive garments that respond to movement or change color with a touch. In the healthcare field, these textiles are being utilized for monitoring vital signs, detecting falls, and even delivering drug therapies. The military sector is also leveraging smart textiles for advanced camouflage, communication, and protection purposes. As the demand for smart textiles continues to soar, the need for specialized textile chemicals becomes increasingly crucial. These textile chemicals play a vital role in the production process, enhancing the functionality of the fabrics. They provide water resistance to keep the wearer dry, fire resistance for enhanced safety, stain resistance for easy maintenance, and anti-static properties for added comfort. These chemicals enable the textiles to conduct electricity, allowing seamless integration with electronic components. With the growing adoption of smart textiles, there has been a significant surge in the consumption of these specialized textile chemicals, particularly in the United States. This surge has led to substantial growth in the textile chemicals market, as manufacturers strive to meet the demand for high-quality smart textiles. In June 2024, Nautilus Defense, a global leader in advanced textile-integrated systems, has showcased a significant breakthrough in the field of electronic textiles. The company revealed that it has successfully demonstrated the world's first direct die attachment of chiplets to embroidered conductive yarns with a 180µm pitch, a gap between the yarns as thin as a single hair. This technological achievement marks a key milestone in the scalable production of cutting-edge sensor systems that are designed to look and feel like everyday fabrics. The rising demand for smart textiles is not only shaping the future of the textile industry but also positively impacting the United States textile chemicals market. As the interest in and applications of smart textiles continue to expand, the demand for specialized textile chemicals will likely surge, further propelling the growth of this dynamic market.

Growth in End-Use Industries such as Automotive

The growth of end-use industries, particularly in automotive and home textiles, is significantly driving the U.S. textile chemicals market. Automotive manufacturers require specialized textiles for car interiors, including upholstery, carpeting, and seat covers,

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which are treated with chemicals for durability, stain resistance, and flame retardancy. Similarly, the home textile sector, which includes bedding, curtains, and upholstery, is expanding as consumers seek high-performance textiles with properties such as wrinkle resistance, odor control, and moisture-wicking. The increasing demand for functional and aesthetic textiles in these industries has led to a higher need for textile chemicals to meet the specific requirements of different applications. As both the automotive and home textiles industries continue to grow, the demand for advanced textile chemicals will remain strong.

Segmental Insights

Application Insights

The apparel segment is projected to experience rapid growth during the forecast period. The development of apparel industries is a pivotal factor influencing the growth of the textile chemicals market. As the fashion industry continues to expand and evolve, there is an increasing demand for various types of apparel, ranging from everyday clothing to luxury and high-fashion items. This surge in demand necessitates the use of textile chemicals to ensure not only the quality, durability, and aesthetic appeal of the garments but also the safety and comfort of the wearers. Textile chemicals play a crucial role in enhancing the performance of fabrics, making them resistant to wear and tear, stains, fire, and other environmental factors.

Rising disposable incomes have also played a crucial role in driving the demand for apparel, and consequently, textile chemicals. With higher disposable income, consumers are able to allocate more of their budget towards clothing, leading to a higher demand for textiles and the chemicals used in their production. This trend is particularly evident in developing countries where economic growth is leading to a rise in consumer purchasing power. As people seek to upgrade their lifestyles and embrace fashion trends, the demand for innovative and high-quality textiles, supported by textile chemicals, continues to grow. The apparel industry has witnessed a significant shift towards the use of technical textiles. These textiles are engineered to meet specific requirements, such as durability, strength, and specialized functionality. They find applications in various sectors, including sports, healthcare, automotive, and protective wear. In the apparel industry, technical textiles are being increasingly utilized for their unique properties, such as moisture-wicking, UV protection, antimicrobial properties, and breathability. The chemicals used in the production of these textiles play a crucial role in enhancing their performance and ensuring they meet the desired functional requirements. The demand for these technical textiles in the apparel sector, driven by the need for innovative and functional clothing, is contributing to the overall growth of the textile chemicals market. As the industry continues to evolve and consumers prioritize quality, comfort, and sustainability, the role of textile chemicals in supporting the development of advanced and performance-driven textiles becomes even more significant.

Regional Insights

Midwest emerged as the dominant region in the United States Textile Chemicals Market in 2024, holding the largest market share in terms of value. The Midwest, often hailed as the "Manufacturing Belt," is renowned for its thriving and resilient manufacturing sector. This vast region is home to a multitude of industries, including automotive, steel, and chemical manufacturing, which form the backbone of its economic prowess. In particular, the industrial manufacturing sector in the Midwest stands as one of the primary consumers of textile chemicals, highlighting the symbiotic relationship between the robustness of manufacturing and the high demand for textile chemicals in this dynamic region.

With a rich industrial history deeply rooted in the American Industrial Revolution, the Midwest has cultivated a heritage of excellence in manufacturing. Over the years, it has honed a highly skilled workforce and developed an extensive infrastructure that provides unwavering support to a wide array of industries, including the textiles sector. This strong industrial legacy continues to exert a significant influence, shaping and propelling the growth of the textile chemicals market in the region.

Key Market Players

- The Dow Chemical Company
- BASF Corporation
- Huntsman Corporation
- Archroma U.S., Inc.
- DuPont de Nemours, Inc.
- 3M Company
- The Lubrizol Corporation
- Crucible Chemical Company

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☐☐NICCA USA Inc

☐☐AGC Chemicals Americas, Inc.

Report Scope:

In this report, the United States Textile Chemicals Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

☐☐United States Textile Chemicals Market, By Product:

- o Coating & Sizing Chemicals
- o Colorants & Auxiliaries
- o Finishing Agents
- o Surfactants
- o Others

☐☐United States Textile Chemicals Market, By Application:

- o Apparel
- o Home Furnishing
- o Technical Textiles
- o Others

☐☐United States Textile chemicals Market, By Region:

- o Northeast
- o Midwest
- o South
- o West

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the United States Textile Chemicals Market.

Available Customizations:

United States Textile Chemicals Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

☐☐Detailed analysis and profiling of additional market players (up to five).

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