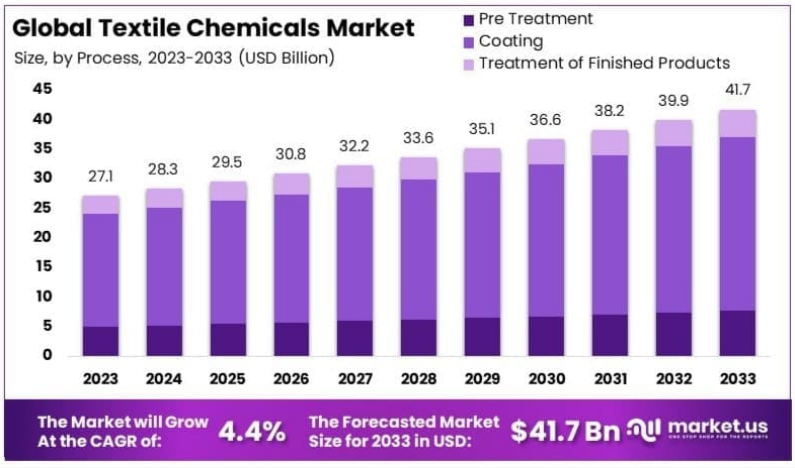
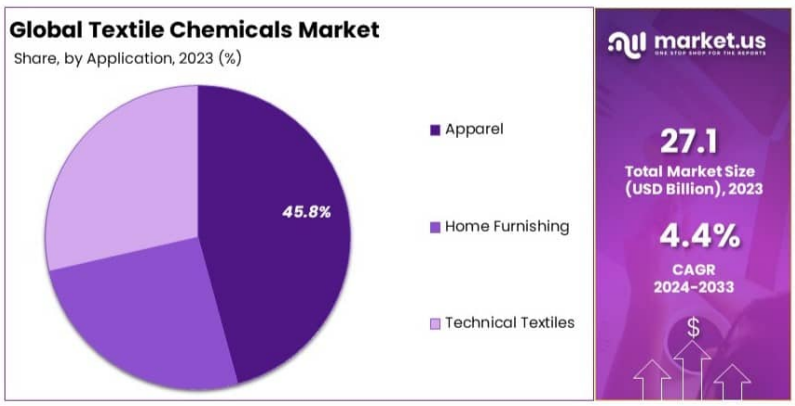
Textile Chemicals Market Size Valued at USD 41.7 Bn by 2033 | With Top-Growing Players : Solvay, Evonik

Textile Chemicals Market size is expected to be worth around USD 41.7 Bn by 2033, from USD 27.1 Bn in 2023, growing at a CAGR of 4.4% from 2024 to 2033.



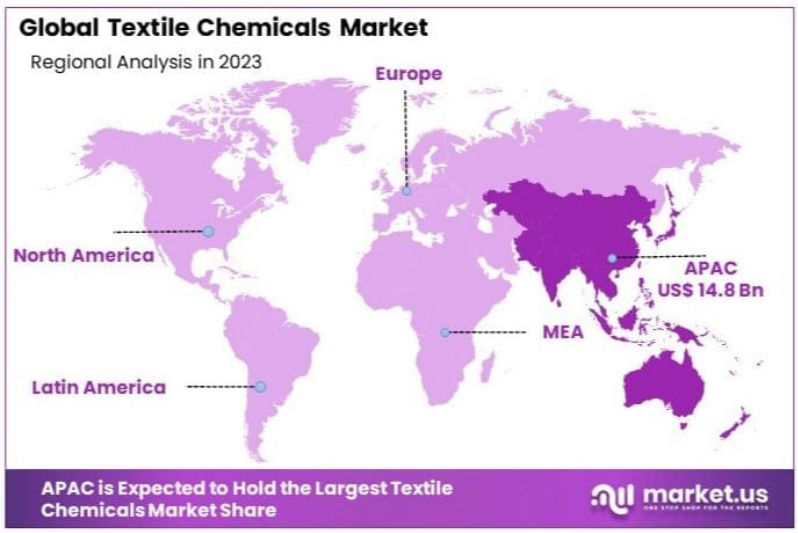


NEW YORK, NY, UNITED STATES, January 27, 2025 /EINPresswire.com/ -- The global Textile Chemicals Market is experiencing significant growth, driven by the increasing demand for apparel and the evolving fashion industry which calls for higher quality and performance of textiles. This market encompasses a wide array of chemicals used in the processing and production of textiles, including dyes, finishing agents, surfactants, and coatings, among others. These chemicals are vital for enhancing the functionality, aesthetics, and durability of fabrics, making them integral to the textile manufacturing industry.

In particular, the apparel sector remains the largest consumer of textile chemicals due to ongoing fashion trends and the rising consumer demand for high-quality garments. The industry is also heavily influenced by the rapid urbanization and economic growth in emerging markets, particularly in Asia-Pacific, which hosts some of the largest textile manufacturing hubs in the world such as China and India. This region's dominance is further bolstered by the availability of low-cost labor, abundant raw material supply, and supportive government policies fostering the textile sector.

Driving factors for the market include technological advancements in textile manufacturing, which are increasingly adopting sustainable and eco-friendly production methods. There is a

growing awareness and regulatory push towards reducing the environmental impact of textile production, which involves water pollution and toxic waste associated with traditional dyeing and finishing processes. Innovations such as digital textile printing, eco-friendly dyes, and waterless dyeing technologies are becoming more prevalent, offering substantial growth opportunities for the market. Moreover, the rise in consumer awareness about sustainable products is encouraging manufacturers to shift towards greener alternatives and improve their supply chain transparency.



Another significant driver is the increasing emphasis on functional textiles, which are engineered to deliver specific functionalities such as UV protection, anti-bacterial properties, and water resistance. The demand for such high-performance textiles is surging in sectors like sportswear, protective clothing, and healthcare, where fabric performance is critical. This trend is expected to continue as advancements in textile technology enhance the capabilities of fabrics to meet diverse consumer demands.

> APAC Dominates with 54.6% Market Share in the Textile Chemicals Market"
>
> *Tajammul Pangarkar*

Looking ahead, the future growth opportunities in the global textile chemicals market appear promising. The sector is likely to witness continued innovations, particularly in the area of sustainable and smart textiles. The development of bio-based chemicals and the incorporation of nanotechnology and biotechnology in fabric processing are anticipated to offer new avenues for growth. Additionally, as global economic conditions improve and consumer spending increases, the market is expected to expand further.

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Key Takeaways

• Textile Chemicals Market was valued at USD 27.1 billion in 2023 and is expected to reach USD 41.7 billion by 2033, with a CAGR of 4.4%.

• Coating leads in the process segment with 70.3%, critical for enhancing fabric properties.

• Coating & Sizing Chemicals lead in product with 49.4%, essential for textile finishing and quality.

• APAC dominates the market with 54.6%, driven by its extensive textile manufacturing.

Textile Chemicals Top Trends

1. Sustainability and Circular Economy: There is a significant push towards sustainability, with the industry adopting green chemistry and advanced recycling technologies to reduce environmental impact. Companies are focusing on developing bio-based chemicals and enhancing recycling processes to support a circular economy.

2. Technological Advancements: The integration of Artificial Intelligence (AI) and Internet of Things (IoT) technologies is transforming the textile chemicals industry. These technologies improve production efficiency, enable predictive maintenance, and enhance quality control processes.

3. Customization and Personalization: The demand for customized and personalized textiles is growing. Advances in digital textile printing and 3D printing technologies allow for greater customization in textile production, reducing waste and responding to individual consumer preferences.

4. Smart and Functional Textiles: The development of smart textiles is on the rise, driven by consumer interest in textiles that offer additional functionalities, such as improved thermal regulation, connectivity, and health monitoring capabilities.

5. Regulatory Influence and Compliance: Stricter environmental regulations are prompting the textile chemicals industry to innovate with eco-friendly and non-toxic chemical solutions. Compliance with these regulations is not only a legal requirement but also a competitive advantage in the market.

Key Market Segments

Process Segment Analysis: Coating Dominates with 70.3%

In the textile chemicals market, the process segment is primarily categorized into Pre-Treatment, Coating, and Treatment of Finished Products. Coating stands as the dominant process, holding a 70.3% share of the market. This is driven by the growing demand for textiles that offer enhanced durability and specialized functionalities, such as water repellency, anti-pilling, and protection against environmental factors.

Coating processes involve the application of a chemical layer that modifies the surface properties of textiles. These treatments make fabrics waterproof, resistant to stains, and less prone to wear and tear. The versatility and essential nature of these coatings make them integral to the production of high-performance textiles, especially in sectors like sportswear and outdoor apparel, where material performance is critical.

While Coating processes capture the largest share, Pre-Treatment and Treatment of Finished Products also play significant roles. Pre-treatment processes, including de-sizing, bleaching, and scouring, prepare fabrics by cleaning and refining them before dyeing and finishing. Treatment of Finished Products focuses on enhancing the texture and structure of textiles through applications such as softening and stiffening.

The growth of the Coating segment is further supported by continuous technological advancements in fabric treatment chemicals and processes, ensuring ongoing improvements in efficiency and effectiveness.

Product Segment Analysis: Coating & Sizing Chemicals Lead with 49.4%

Within the product segment of the textile chemicals market, Coating & Sizing Chemicals take the lead with a 49.4% market share. These chemicals are critical in enhancing fabric quality and performance by protecting fibers during weaving, improving mechanical strength, and adding desired characteristics like smoothness, weight, and resistance to environmental factors.

Coating and sizing treatments are vital across various textile applications, including apparel and home furnishings. These chemicals help achieve the necessary aesthetic and functional qualities in textiles, ensuring that they meet performance expectations under specific conditions.

While Coating & Sizing Chemicals dominate the product segment, other product categories such as Finishing Agents and Surfactants also make significant contributions. Finishing Agents, including repellents, flame retardants, and antimicrobial treatments, add specialized functionalities that elevate the value of textile products. Surfactants, on the other hand, improve the textile processing phase, playing a key role in fabric care and cleaning.

Application Segment Analysis: Apparel Holds the Largest Share at 45.8%

In the application segment, Apparel takes the largest share of the market with 45.8%. This dominance is driven by the consistent demand for clothing that combines aesthetic appeal, comfort, and functionality. Apparel needs to incorporate advanced performance features, such as durability, ease of care, and resistance to wear, all of which are made possible by textile chemicals.

Textile chemicals are essential in the production of a broad range of apparel products,

influencing factors such as color, print patterns, texture, and longevity. Innovations in textile treatments have led to the development of fabrics that resist stains, retain color, and manage moisture, improving the overall wearer experience.

Key Market Segments List

By Process

 Pre Treatment

—— De-sizing Agents
—— Bleaching Agents
—— Scouring Agents
—— Others

 Coating

—— Anti-piling
—— Water Proofing
—— Protection
—— Water Repellant
—— Others

 Treatment of Finished Products

—— Softening
—— Stiffening
—— Others

By Product

 Coating & Sizing Chemicals

—— Colorants & Auxiliaries
—— Dispersants/Levelant
—— Fixative
—— UV Absorber
—— Other

 Finishing Agents

—— Repellent & Release
—— Flame Retardants

—— Antimicrobial or Anti-inflammatory
—— Other

 Surfactants

—— Wetting Agents
—— Detergents & Dispersing Agents
—— Emulsifying Agents
—— Lubricating Agents
—— Denim Finishing Agents
—— Enzymes
—— Resins
—— Softeners
—— Defoamers
—— Bleaching Agents
—— Curesh Resistant Agents
—— Anti-back Staining Agents
—— Others

By Application

 Apparel

—— Sportswear
—— Outerwear
—— Innerwear
—— Others

 Home Furnishing

—— Furniture
—— Drapery
—— Carpet
—— Other

 Technical Textiles

—— Agrotech
—— Buildtech
—— Geotech
—— Medtech
—— Mobiltech
—— Packtech

—— Protech
—— Indutech
—— Other

Regional Analysis

The Asia-Pacific (APAC) region commands a dominant 54.6% share of the textile chemicals market, valued at USD 14.8 billion. This market leadership is largely driven by APAC's extensive textile manufacturing industry, particularly in countries like China, India, and Bangladesh. The region benefits from a combination of factors, including abundant raw materials, low labor costs, and favorable government policies, which have established it as the global hub for textile production.

In APAC, textile chemicals play a critical role in key processes such as dyeing, finishing, and fabric processing, catering to both domestic and international demand. The region's ability to produce a diverse range of textile products at competitive prices further strengthens its market position. Additionally, the shift toward sustainable and eco-friendly chemical solutions, alongside ongoing investments in textile technology, is poised to shape the future trajectory of the market in the region.

Regulations On the Textile Chemicals Market

• US Consumer Product Safety Improvement Act (CPSIA): This regulation sets strict guidelines for the chemical content in children's products, including textiles, focusing on lead and phthalates restrictions to ensure safety. Testing and certification are mandatory to demonstrate compliance.

• California PFAS Regulations: Starting in 2025, California will enforce limits on per- and polyfluoroalkyl substances (PFAS) in textiles, especially those used by children. PFAS levels in new textile articles must not exceed specific thresholds, with strict penalties for non-compliance.

• EU REACH Regulation: The REACH regulation in the EU imposes strict controls on chemicals used in textiles, targeting substances harmful to human health and the environment. It requires manufacturers to manage risks associated with chemicals and provides a framework for restricting certain hazardous substances.

• EU Restriction on CMR Chemicals: Enacted to limit consumer exposure to carcinogenic, mutagenic, or toxic for reproduction (CMR) chemicals. This includes setting maximum concentration limits for specific harmful substances in clothing, textiles, and footwear.

• EU Corporate Sustainability Reporting Directive (CSRD): From 2025, large companies in the EU will need to report on environmental and social impacts, including how their operations affect human rights and the environment, with these reports verified by third parties.

Key Players

• Solvay S.A.
• Evonik Industries AG
• Tanatext Chemicals
• Rudolf GmbH
• NICCA Chemical Co. Ltd.
• Kemin Industries Inc.
• JINTEX Ltd.
• Sarex Chemicals
• Archroma
• Huntsman Corporation
• DIC Corporation
• Kiri Industries Ltd.
• Covestro AG
• Omnova Solutions Inc.
• Lubrizol Corporation

Conclusion

The global Textile Chemicals Market is shaped by a stringent regulatory landscape designed to ensure the safety, environmental sustainability, and ethical production of textile goods. From the US's CPSIA ensuring chemical safety in children's products to the EU's REACH regulation imposing strict controls on hazardous substances, each regulation underscores a growing emphasis on consumer health and environmental protection. Additionally, state-specific regulations like California's stringent PFAS limits reflect localized efforts to combat chemical risks. As the market continues to evolve, compliance with these regulations will not only mitigate risks but also provide strategic advantages to businesses that prioritize sustainable and safe production practices. Moving forward, companies in the textile industry must stay informed and adaptable to navigate this complex regulatory environment effectively.

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