

Paper Dry Strength Agent Market Size and Forecast (2021 - 2031), Global and Regional Share, Trend, and Growth Opportunity Analysis Report Coverage: By Type (Polyvinyl Amine, Polyacrylamide [Amphoteric Polyacrylamide, Cationic Glyoxalated Polyacrylamide, Cationic Solution Polyacrylamide, and Others], Starch and Others), Application (Printing and Writing Paper, Tissue Paper, Packaging Paper, Specialty Paper, and Others), and Geography

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Abstracts

The paper dry strength agent market size is valued at US\$ 752.27 million in 2024 and is projected to reach US\$ 986.51 million by 2031; it is estimated to register a CAGR of 4.1% from 2025 to 2031.

Dry strength agents are chemicals added during the wet-end processing of paper, increasing its tensile strength and tear resistance and improving structural integrity; this helps paper and paperboard to withstand physical challenges such as tearing, bending/folding, and crushing during product shipping to longer distances. These chemicals are added to paper during the manufacturing process to enhance its strength and durability when dry. Dry strength is a crucial property for paper products used in a variety of applications, including printing, packaging, and tissue products, where the paper needs to withstand handling and use without losing integrity. Common dry strength agents include polyvinyl amine, polyacrylamides, starch derivatives, and other chemicals. The demand for paper dry strength agents is driven by the need to enhance paper quality, durability, and performance. The increasing demand for recycled paper, advancements in papermaking technologies, and stringent environmental regulations

encouraging sustainable additives further contribute to the demand.

The rise of e-commerce, especially post the COVID-19 pandemic, has had a massive impact on the global retail industry. Internet access has revolutionized consumer behavior, especially in how people shop. Currently, 64% of the world's 8 billion people use the internet, a rate that has doubled over the past decade. According to the International Trade Administration (ITA), the global B2C e-commerce revenue is expected to reach US\$ 5.5 trillion by 2027, growing at a compound annual growth of 14.4. With the booming e-commerce sector, especially post-pandemic, the demand for shipping and packaging materials is increasing. Online shopping relies heavily on paper and paperboard packaging for products, including boxes, padded mailers, and other protective packaging. There is a rising need for durable packaging to prevent product damage during transit and handling. With the increasing frequency of shipping, the need for stronger and more reliable packaging materials is growing. Dry strength agents are chemicals added during the wet-end processing of paper, increasing its tensile strength and tear resistance and improving structural integrity; this helps paper and paperboard to withstand physical challenges such as tearing, bending/folding, and crushing during product shipping to longer distances. Thus, the rising e-commerce sector and the need for durable and strong paper and paperboard packaging materials drive the demand for dry strength agents across the paper and pulp industries

Based on the application, the paper dry strength agent market is segmented into printing and writing paper, tissue paper, packaging paper, specialty paper, and others. Packaging paper held a large market share in the market in 2024. The increasing demand for sustainable and high-strength packaging solutions propels the demand for packaging papers. Packaging papers, including kraft paper, corrugated linerboard, and sack paper, require enhanced mechanical strength to withstand handling, shipping, and storage conditions. Dry strength agents, including cationic starch and polyacrylamides, improve tensile, burst, and compression strength, ensuring durability and performance. As e-commerce continues to expand globally, the demand for high-strength and lightweight packaging materials is rising, further boosting the need for efficient dry-strength agents.

A few players operating in the paper dry strength agent market include Applied Chemicals International Group AG, Solenis LLC, Seiko PMC Corp, Ecolab Inc, Buckman Laboratories International Inc, BIM Kemi AB, Arakawa Chemical Industries Ltd, Kemira Oyj, Shandong Tiancheng Chemical Co Ltd, Axchem Korea Co Ltd, Wuxi Lansen Chemicals Co Ltd, Qingzhou Jinhao New Material Co Ltd, Mare SpA, Benzson Group, and Lanyao Water Treatment Co Ltd, among others. Players operating in the

paper dry strength agent market focus on providing innovative and healthy products at affordable prices to fulfill customer demand.

The overall paper dry strength agent market size has been derived using both primary and secondary sources. To begin the research process, exhaustive secondary research has been conducted using internal and external sources to obtain qualitative and quantitative information related to the market. Also, multiple primary interviews have been conducted with industry participants to validate the data and gain more analytical insights into the topic. The participants of this process include industry experts such as VPs, business development managers, market intelligence managers, and national sales managers-along with external consultants such as valuation experts, research analysts, and key opinion leaders-specializing in the paper dry strength agent market.

Reason to buy

Progressive industry trends in the paper dry strength agent market to help players develop effective long-term strategies

Business growth strategies adopted by developed and developing markets

Quantitative analysis of the paper dry strength agent market from 2021 to 2031

Estimation of the demand for paper dry strength agent across various industries

Porter's Five Forces analysis to illustrate the efficacy of buyers and suppliers operating in the industry to predict the market growth

Recent developments to understand the competitive market scenario and the demand for paper dry strength agent across the globe

Market trends and outlook coupled with factors driving and restraining the growth of the paper dry strength agent market.

Decision-making process by understanding strategies that underpin commercial interest concerning the global v market growth

The global paper dry strength agent market size at various nodes of market

Detailed overview and segmentation of the paper dry strength agent market as

well as its dynamics in the industry

The paper dry strength agent market size in different regions with promising growth opportunities

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