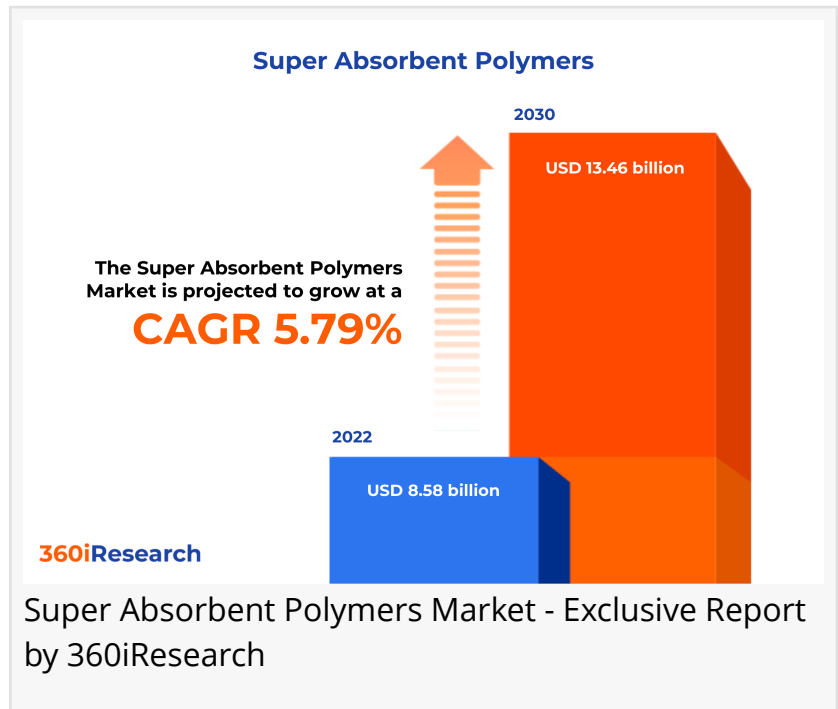


Super Absorbent Polymers Market worth \$13.46 billion by 2030 - Exclusive Report by 360iResearch

The Global Super Absorbent Polymers Market to grow from USD 8.58 billion in 2022 to USD 13.46 billion by 2030, at a CAGR of 5.79%.

PUNE, MAHARASHTRA, INDIA ,
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-- The "[Super Absorbent Polymers Market](#) by Type (Ethylene Maleic Anhydride Copolymer, Polyacrylamide Copolymers, Polysaccharides), Grade (Agricultural Grade, Hygiene Grade, Industrial Grade), Manufacturing Process, Application - Global Forecast 2023-2030" report has been added to 360iResearch.com's offering.



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Super absorbent polymers (SAPs) are materials that have the ability to absorb and retain substantial amounts of a liquid relative to their mass. Super absorbent polymers are cross-linked polyacrylate-based polymers with a distinctive ability to absorb aqueous solutions through hydrogen bonding with water molecules. The increased demand for personal hygiene products globally is increasing the adoption of super-absorbent polymers. The usage of SAPs in agricultural applications also enhances market growth. Technological developments supporting the advanced manufacturing of superabsorbent polymers are contributing to market growth by increasing manufacturers' production capacities. However, volatile prices and limited availability of raw materials may limit the market growth. The environmental concerns associated with non-

biodegradable superabsorbent polymers are also a factor concerning the adoption of SAPs. Moreover, the development of advanced wound management products using super-absorbent polymers is expected to create attractive opportunities in the market landscape. The development of biodegradable & sustainable super absorbent polymers may generate significant growth potential in upcoming years.

Application: Rising applications of super absorbent polymers in personal hygiene products
In agriculture, SAPs are mainly used for water retention in soil, thereby contributing to water conservation and crop yield enhancement. Super absorbent polymers are particularly valuable in arid regions where water scarcity is predominant. Super absorbent polymers are used in various industrial applications, including waste management, construction, and packaging. Super absorbent polymers improve the solidity of waste-containing hazardous compounds and can be used in water-blocking applications in cables or for flood control. The medical application of SAPs is growing, particularly in wound care, where they're used in absorbent pads and incontinence products. Personal hygiene is the diverse application segment for SAPs, with extensive use in baby diapers, adult incontinence pads, and feminine hygiene products. Super absorbent polymers are prized for their high absorbency rate and the ability to lock in moisture to provide comfort and skin protection.

Type: Significance properties of sodium polyacrylate polymer for industrial applications
Ethylene maleic anhydride copolymer is preferred for industry-specific applications such as the agriculture industry due to pH sensitivity and biodegradability properties. Polyacrylamide copolymers are adopted for their high water absorption rates and are extensively used in the wastewater treatment industry due to their flocculant properties. Polysaccharides are naturally occurring biopolymers that possess water retention capabilities and are frequently used in the pharmaceutical and food industry for controlled release applications and as thickeners and stabilizers in a variety of products. Sodium polyacrylate is the most widely used super absorbent polymer, recognized for its superior absorbency under load and excellent gel strength, which is essential for products including baby diapers, adult incontinence pads, and pet pads.

Manufacturing Process: Change in chemical properties based on the process of manufacturing for super absorbent polymers

Gel polymerization method is used to produce super absorbent polymers (SAPs) where the monomer solution undergoes polymerization in an aqueous solution forming gel mass to obtain the SAP powder. The gel polymerization process is ideal for producing SAPs with high gel strength, which are typically used in applications such as diapers, adult incontinence pads, and similar products where high absorption under pressure is necessary. Solution polymerization involves dissolving the monomers in a solvent before initiating the polymerization reaction. Solution polymerization method allows for the homogeneous mixing of components, leading to a uniform polymer structure. Suspension polymerization is employed to manufacture super absorbent polymers by polymerizing the monomer droplets suspended in a non-solvent medium. Suspension polymerization methods produce bead-like SAP products that are used in cable insulation, water-blocking tapes, and various industrial applications requiring controlled

swelling characteristics.

Grade: Increasing adoption of agricultural grade in the farming sector

Agricultural grade super absorbent polymers (SAPs) are polymers used to improve the water-retention properties of soil. Agricultural grade super absorbent polymers are critical in arid and semi-arid regions where water conservation is a priority, and they are also used in forestry and landscaping to reduce water stress. Hygiene grade SAPs are primarily utilized in personal care products such as adult incontinence pads, baby diapers, and feminine hygiene products. Hygiene-grade SAPs offer high absorption under pressure and excellent retention capabilities, making them ideal for use in hygiene product applications. Industrial-grade SAPs have applications in a wide range of industries, including waste management, construction, and packaging. Industrial-grade SAPs are formulated to handle larger quantities of liquid and are often employed in situations requiring leak prevention and liquid waste solidification.

Regional Insights:

In the Americas region, the United States and Canada witness significant growth in the market arena, characterized by a well-established infrastructure for product innovation and a high demand for adult incontinence and feminine hygiene products. Public and private sectors in the Americas region have shown a trend toward investing in research aimed at enhancing the bio-based super-absorbent polymer industry to lessen environmental impact. The European Union countries demonstrate high market maturity with strict regulations prioritizing sustainability and reducing environmental footprint in the region. The Middle East demonstrates a burgeoning growth approach, with the UAE and Saudi Arabia actively focusing on investment for product innovations, and the African market is highly focused on using SAPs in agriculture to address water scarcity. The Asia-Pacific region showcases robust growth potential for the Super Absorbent Polymers (SAP) market due to increasing population, rising hygiene awareness, and growing disposable incomes, particularly in China, Japan, and India. Consumer needs in the APAC region are driven by growing urbanization and healthcare reforms emphasizing improved sanitary conditions.

FPNV Positioning Matrix:

The FPNV Positioning Matrix is essential for assessing the Super Absorbent Polymers Market. It provides a comprehensive evaluation of vendors by examining key metrics within Business Strategy and Product Satisfaction, allowing users to make informed decisions based on their specific needs. This advanced analysis then organizes these vendors into four distinct quadrants, which represent varying levels of success: Forefront (F), Pathfinder (P), Niche (N), or Vital(V).

Market Share Analysis:

The Market Share Analysis offers an insightful look at the current state of vendors in the Super Absorbent Polymers Market. By comparing vendor contributions to overall revenue, customer base, and other key metrics, we can give companies a greater understanding of their

performance and what they are up against when competing for market share. The analysis also sheds light on just how competitive any given sector is about accumulation, fragmentation dominance, and amalgamation traits over the base year period studied.

Key Company Profiles:

The report delves into recent significant developments in the Super Absorbent Polymers Market, highlighting leading vendors and their innovative profiles. These include Acuro Organics Limited, APROTEK Group, Aushadh Limited, BASF SE, Bharat Petroleum Corporation Limited, Chase Corporation, Chinafloc, Evonik Industries AG, Exxon Mobil Corporation, Formosa Plastics Corporation, FUJIFILM Wako Pure Chemical Corporation, Gelok International, Harnit Polychem, Hayashibara Co., Ltd., High Smart Commodity Co., Ltd., Innova Corporate (India), Kao Corporation, LG Chem, Ltd., Maple Biotech Pvt. Ltd., Nippon Shokubai Co., Ltd., NSB Polymers GmbH, Qingdao SOCO New Material Co., Ltd., SABIC, Sanyo Chemical Industries, Ltd., Satellite Chemical Co., Ltd., SONGWON Industrial Group, Sumitomo Seika Chemicals Co., Ltd., Tramfloc, Inc., Vedic Orgo LLP, Xitao Polymer Co., Ltd., and Yixing Bluwat Chemicals Co., Ltd..

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Market Segmentation & Coverage:

This research report categorizes the Super Absorbent Polymers Market in order to forecast the revenues and analyze trends in each of following sub-markets:

Based on Type, market is studied across Ethylene Maleic Anhydride Copolymer, Polyacrylamide Copolymers, Polysaccharides, and Sodium Polyacrylate. The Sodium Polyacrylate is projected to witness significant market share during forecast period.

Based on Grade, market is studied across Agricultural Grade, Hygiene Grade, and Industrial Grade. The Hygiene Grade is projected to witness significant market share during forecast period.

Based on Manufacturing Process, market is studied across Gel Polymerization, Solution Polymerization, and Suspension Polymerization. The Solution Polymerization is projected to witness significant market share during forecast period.

Based on Application, market is studied across Agriculture, Industrial, Medical, Personal Hygiene, and Wastewater Treatment. The Personal Hygiene is further studied across Adult Incontinence Product, Baby Diaper Sector, and Feminine Hygiene Product. The Industrial is projected to witness significant market share during forecast period.

Based on Region, market is studied across Americas, Asia-Pacific, and Europe, Middle East &

Africa. The Americas is further studied across Argentina, Brazil, Canada, Mexico, and United States. The United States is further studied across California, Florida, Illinois, New York, Ohio, Pennsylvania, and Texas. The Asia-Pacific is further studied across Australia, China, India, Indonesia, Japan, Malaysia, Philippines, Singapore, South Korea, Taiwan, Thailand, and Vietnam. The Europe, Middle East & Africa is further studied across Denmark, Egypt, Finland, France, Germany, Israel, Italy, Netherlands, Nigeria, Norway, Poland, Qatar, Russia, Saudi Arabia, South Africa, Spain, Sweden, Switzerland, Turkey, United Arab Emirates, and United Kingdom. The Americas commanded largest market share of 37.42% in 2022, followed by Europe, Middle East & Africa.

Key Topics Covered:

1. Preface
2. Research Methodology
3. Executive Summary
4. Market Overview
5. Market Insights
6. Super Absorbent Polymers Market, by Type
7. Super Absorbent Polymers Market, by Grade
8. Super Absorbent Polymers Market, by Manufacturing Process
9. Super Absorbent Polymers Market, by Application
10. Americas Super Absorbent Polymers Market
11. Asia-Pacific Super Absorbent Polymers Market
12. Europe, Middle East & Africa Super Absorbent Polymers Market
13. Competitive Landscape
14. Competitive Portfolio
15. Appendix

The report provides insights on the following pointers:

1. Market Penetration: Provides comprehensive information on the market offered by the key players
2. Market Development: Provides in-depth information about lucrative emerging markets and analyzes penetration across mature segments of the markets
3. Market Diversification: Provides detailed information about new product launches, untapped geographies, recent developments, and investments
4. Competitive Assessment & Intelligence: Provides an exhaustive assessment of market shares, strategies, products, certification, regulatory approvals, patent landscape, and manufacturing capabilities of the leading players
5. Product Development & Innovation: Provides intelligent insights on future technologies, R&D activities, and breakthrough product developments

The report answers questions such as:

1. What is the market size and forecast of the Super Absorbent Polymers Market?

2. Which are the products/segments/applications/areas to invest in over the forecast period in the Super Absorbent Polymers Market?
3. What is the competitive strategic window for opportunities in the Super Absorbent Polymers Market?
4. What are the technology trends and regulatory frameworks in the Super Absorbent Polymers Market?
5. What is the market share of the leading vendors in the Super Absorbent Polymers Market?
6. What modes and strategic moves are considered suitable for entering the Super Absorbent Polymers Market?

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