

Polyacrylic Acid Market By Type (Synthetic, Bio-Based), By Application (Thickeners, Dispersant, Scale Inhibitor, Emulsifiers, Binders, Others), By End-Use Industry (Construction, Paints and Coatings, Pulp and Paper, Adhesives and Sealants, Water Treatment, Pharmaceuticals, Cosmetics, Others): Global Opportunity Analysis and Industry Forecast, 2023-2032

Market Report | 2024-03-01 | 265 pages | Allied Market Research

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Report description:

The global polyacrylic acid market was valued at \$4 billion in 2022, and is projected to reach \$6.7 billion by 2032, growing at a CAGR of 5.4% from 2023 to 2032.

Introduction

Polyacrylic acid is a synthetic polymer with the chemical formula $(C_3H_4O_2)_n$, where "n" represents the number of repeating units in the polymer chain. It belongs to the class of acrylic polymers and is characterized by its high molecular weight. Polyacrylic acid is derived from acrylic acid through polymerization processes. It is a versatile polymer known for its water-absorbing and adhesive properties.

Polyacrylic acid has a wide range of applications across various industries. One of its significant uses is in water treatment, where it functions as a scale inhibitor, helping to prevent the formation of scale deposits in pipelines, boilers, and other water-handling equipment. In addition, it is employed in the production of superabsorbent polymers, which find applications in diapers, agriculture, and other absorbent products.

In the field of coatings and adhesives, polyacrylic acid is utilized for its binding and film-forming properties. It is found in products such as paints, adhesives, and sealants. The polymer's ability to form transparent films makes it useful in applications where clarity is important. For instance, polyacrylic acid is majorly applicable in food packaging due to its superior hardness and barrier quality. Known for its biocompatibility, it is suitable for use in some medical and pharmaceutical applications. It is important to note that the specific properties and applications of polyacrylic acid vary on the basis of factors such as its molecular weight and

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the conditions of its synthesis.

Market Dynamics

The paint and coatings industry has experienced rapid expansion globally, driven by urbanization, infrastructure development, and the automotive sector's growth. Polyacrylic acid is utilized in paints and coatings formulations as a thickener, rheology modifier, and dispersant. It helps improve the application properties, film formation, and adhesion of coatings, thereby enhancing their performance and durability. As emerging economies witness significant infrastructural development and the automotive industry continues to expand, the demand for paints and coatings is expected to soar. Consequently, the market for PAA in this industry is poised for substantial growth.

The price of raw materials used in PAA production, such as acrylic acid, is subject to volatility due to factors such as fluctuations in crude oil prices, supply chain disruptions, and geopolitical tensions. Price volatility affects overall production costs of PAA, influencing pricing strategies and profit margins for manufacturers. Managing raw material costs and exploring alternative sourcing strategies have become crucial to mitigate the impact of price fluctuations in the PAA market.

Furthermore, increase in demand for soil conditioners and water retention agents presents another favorable opportunity for the PAA market. PAA-based formulations are used in agriculture as soil conditioners and water retention agents to improve soil structure, water retention capacity, and nutrient availability. With the global emphasis on sustainable agricultural practices and water conservation, there is a growing need for effective solutions to enhance crop yield and optimize water usage. PAA's ability to improve soil quality and water retention makes it well-suited for addressing these challenges, positioning it as a promising option for sustainable agriculture practices.

Segments Overview

The poly acrylic acid market is segmented into type, application, end-use industry, and region. On the basis of type, the market is bifurcated into synthetic and bio-based. Depending on application, it is segregated into thickeners, dispersant, scale inhibitor, emulsifiers, binders, and others (conditioners and clarifying agents). By end-use industry, it is fragmented into construction, paints & coatings, pulp & paper, adhesives & sealants, water treatment, pharmaceutical, cosmetic, and others (textile and consumer goods). On the basis of region, the market is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

The major players operating in polyacrylic acid market include Acuro Organics Limited, Evonik Industries AG, Sumitomo Seika Chemicals, Dow, Maxwell Additives Pvt, Ltd, Nippon Shokubai Co. Ltd, Ashland Inc., Lubrizol Corporation, BASF SE, and Arkema.

Key Market Trends

- On the basis of type, the synthetic segment registered the highest accounting for more than four-fifths of the market share and is projected to maintain the same during the forecast period.
- On the basis of application, scale inhibitor segment registered the highest market share accounting for nearly one-fourth of the market share in 2022.
- On the basis of end-use industry, water treatment segment held the highest market share accounting for nearly one-fourth of the market share in 2022.
- On the basis of region, Asia-Pacific is expected to dominate the market during the forecast period.

Key Benefits For Stakeholders

- This report provides a quantitative analysis of the market segments, current trends, estimations, and dynamics of the polyacrylic acid market analysis from 2022 to 2032 to identify the prevailing polyacrylic acid market opportunities.
- The market research is offered along with information related to key drivers, restraints, and opportunities.
- Porter's five forces analysis highlights the potency of buyers and suppliers to enable stakeholders make profit-oriented business decisions and strengthen their supplier-buyer network.
- In-depth analysis of the polyacrylic acid market segmentation assists to determine the prevailing market opportunities.
- Major countries in each region are mapped according to their revenue contribution to the global market.
- Market player positioning facilitates benchmarking and provides a clear understanding of the present position of the market players.
- The report includes the analysis of the regional as well as global polyacrylic acid market trends, key players, market segments, application areas, and market growth strategies.

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Key Market Segments

By Application

- Thickeners
- Dispersant
- Scale Inhibitor
- Emulsifiers
- Binders
- Others

By Type

- Bio-Based
- Synthetic

By End-Use Industry

- Construction
- Paints and Coatings
- Pulp and Paper
- Adhesives and Sealants
- Water Treatment
- Pharmaceuticals
- Cosmetics
- Others

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By Region

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- Mexico
- Europe
- Germany
- France
- UK
- Spain
- Italy
- Rest of Europe
- Asia-Pacific
- China
- Japan
- India
- South Korea
- Australia
- Rest of Asia-Pacific
- LAMEA
- Brazil
- South Africa
- Saudi Arabia
- Rest of LAMEA
- Key Market Players
- Arkema
- BASF SE
- The Lubrizol Corporation
- Dow Inc.
- Maxwell Additives Pvt. Ltd.
- Nippon Shokubai Co. Ltd.
- Ashland Inc.
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- Evonik Industries AG
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