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Water-Soluble Polymers Market Global Sales are Expected to Reach US$ 63.46 Billion by 2032

SANTA ROSA, CALIFORNIA, USA, April 28, 2023 /EINPresswire.com/ -- The Global Water-Soluble Polymers Market Share, Trends, Analysis and Forecasts, 2019-2032 provides insights on key developments, business strategies, research & development activities, supply chain analysis, competitive landscape, and market composition analysis.

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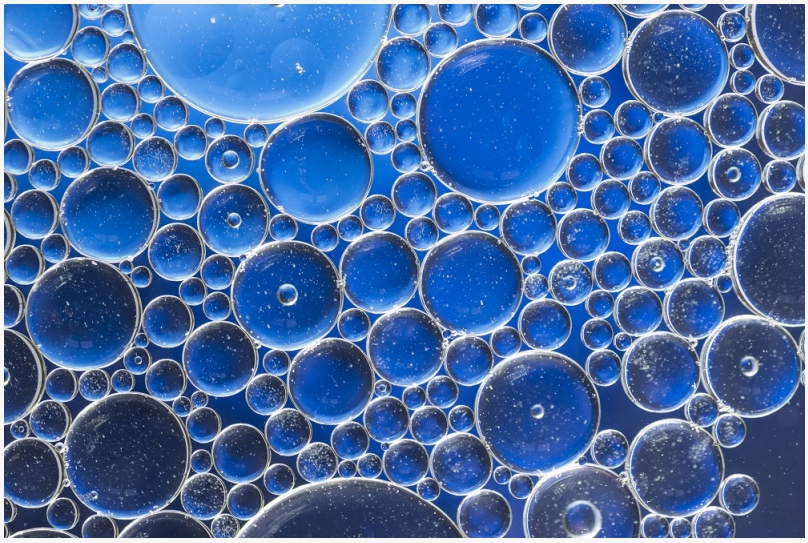

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The global water-soluble polymers market was estimated to be US$ 63.46 Billion in 2022 and is expected to reach US$ 63.46 Billion by 2032 at a CAGR of 4.8%. Water-soluble polymers are high molecular weight compounds that dissolve or disperse in water to form a solution or a gel. These polymers are widely used in various industrial applications, including water treatment, paper manufacturing, food and beverage, and personal care products.

Water-soluble polymers work by interacting with the water molecules and other substances in the solution. They form a variety of physical and chemical bonds, such as hydrogen bonding and van der Waals forces, with the water molecules and other substances in the solution. This interaction can result in a range of behaviors, such as thickening the solution, enhancing the stability of the solution, or adsorbing onto surfaces.

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Growth driving factors of Global Water-soluble Polymers Market

Following are some of the major factors driving the market –

Growing demand from various end-use industries: The demand for water-soluble polymers is increasing in various end-use industries such as wastewater treatment, paper and pulp, food, and pharmaceuticals. In the wastewater treatment industry, water-soluble polymers are used for sludge dewatering, flocculation, and clarification. In the paper and pulp industry, they are used as retention aids, drainage aids, and strength agents. In the food industry, they are used as thickening agents, stabilizers, and gelling agents. In the pharmaceutical industry, they are used as binders, coatings, and controlled-release agents.

Increasing awareness and emphasis on wastewater treatment: With growing concerns over water scarcity and environmental pollution, there is a greater emphasis on wastewater treatment across the world. Water-soluble polymers are used in various wastewater treatment applications, such as sludge dewatering, which helps in reducing the volume of sludge and making it easier to handle and dispose of. They are also used in flocculation and clarification processes to remove suspended solids and other impurities from wastewater.

Favorable government regulations and policies: Governments across the world are implementing various regulations and policies to promote the use of water-soluble polymers in various applications, such as in agriculture and wastewater treatment. For example, the Indian government has launched the National Water Mission, which aims to enhance water use efficiency, promote sustainable water management practices and increase the use of water-soluble polymers in agriculture. In the European Union, the Water Framework Directive has set the objective of achieving good water quality by 2015 and promoting the use of best available technologies for wastewater treatment.

Rising demand for enhanced oil recovery (EOR) in the oil and gas industry: The demand for water-soluble polymers is increasing in the oil and gas industry for enhanced oil recovery (EOR). EOR techniques involve injecting water, steam, or chemicals into reservoirs to increase the pressure and displace more oil. Water-soluble polymers are used to increase the viscosity of water, which in turn helps to displace more oil from reservoirs. For example, BASF has developed a range of water-soluble polymers for EOR applications, which include xanthan gum, polyacrylamide, and alkali-soluble polymers.

Technological advancements and innovations in the production of water-soluble polymers: There have been significant technological advancements and innovations in the production of water-soluble polymers, which have resulted in the development of new and improved products. For example, the development of water-soluble biodegradable polymers has opened up new opportunities for their use in various applications, such as in the agriculture and wastewater treatment sectors. Other innovations include the development of hybrid polymers, which combine the properties of different types of polymers, and the use of nanotechnology to

improve the properties of water-soluble polymers.

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The leading market segments of Global Water-soluble Polymers Market

Based on product, Polyacrylamide is the largest segment in the water-soluble polymers market. This is mainly due to its increasing use in the wastewater treatment industry for flocculation, sludge dewatering, and clarification applications. Polyacrylamide is also widely used in the oil and gas industry for enhanced oil recovery and drilling fluids. The demand for polyacrylamide is further fueled by its use in the paper and pulp industry as a retention aid, drainage aid, and strength agent, as well as in the agriculture industry for soil conditioning and erosion control.

One key trend specific to the polyacrylamide segment is the development of polyacrylamide-based nanocomposites, which have improved properties such as high thermal stability, high strength, and increased resistance to chemicals and water. The development of hybrid polyacrylamides, which combine the properties of different types of polymers, is another trend that is expected to drive the growth of the polyacrylamide segment in the coming years. Additionally, increasing investments in research and development activities to develop new and improved polyacrylamides with enhanced properties is expected to boost the demand for this segment in the near future.

Geographically, Asia-Pacific region is the largest market globally. This is mainly due to the rapid industrialization and urbanization in countries such as China and India, which has resulted in the increasing demand for water-soluble polymers in various industries such as water treatment, food, and personal care. The presence of a large number of manufacturers of water-soluble polymers in the region is also a key factor driving the growth of this market.

While, the Middle East and Africa (MEA) region is the fastest-growing market for water-soluble polymers. This is mainly due to the increasing investments in infrastructure development and the growing demand for clean water and wastewater treatment facilities in the region. The region is also a significant market for water-soluble polymers in the oil and gas industry due to the increasing demand for enhanced oil recovery and drilling fluids. Moreover, the implementation of strict environmental regulations and the focus on sustainable practices in the region are expected to further drive the growth of the water-soluble polymers market in the MEA region in the coming years.

The key players of the Global Water-soluble Polymers Market are:

AkzoNobel, Arkema SA, Ashland Inc., BASF, CP Kelco, DuPont, Gantrade, Gelita AG, Kemira Oyj, Kuraray Group, Nitta Gelatin Inc., Shandong Polymers Bio-Chemicals Co. Ltd., SNF Group, Sumitomo Seika Chemicals Company, The Dow Chemical Company, and Others.

Market Segmentation

Based on Product:

- Polyacrylamide
- Polyvinyl alcohol
- Guar gum
- Cellulose ether
- Gelatin
- Xanthan gum
- Casein
- Polyacrylic acid
- Other Products

Based on Application:

- Water treatment
- Food
- Personal care & detergents
- Oil & gas
- Pulp & paper
- Pharmaceuticals
- Other Applications

By Region

- North America
  * United States
  * Canada
  * Rest of North America

- Europe
  * Germany
  * United Kingdom
  * Italy
  * France
  * Spain
  * Rest of Europe

- Asia Pacific
  * Japan
  * India
  * China

  * Australia
  * South Korea
  * Rest of Asia Pacific

- Middle East & Africa
  * UAE
  * Saudi Arabia
  * South Africa
  * Rest of the Middle East & Africa

- South America
  * Brazil
  * Rest of South America

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