

Report Information

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Hydrogel Market Research Report- Forecast to 2030

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Description:

Global Hydrogel Market Overview

Hydrogel Market Size was valued at USD 22 Billion in 2022. The Hydrogel industry is projected to grow from USD 25 Billion in 2023 to USD 36 Billion by 2030, exhibiting a compound annual growth rate (CAGR) of 8.00% during the forecast period (2023 - 2030). Hydrogel is a substance that contains three dimensions of water. The hydrophilic structure of these components makes this possible. There are plenty of factors used in the manufacture of hydrogel. There is acrylate polymers, polyvinyl alcohol, polymers and polyacrylate used for this purpose. The market is witnessing high growth due to the unique properties of hydrogel are the key market drivers enhancing market growth.

Hydrogel Market Overview

Source: Secondary Research, Primary Research, MRFR Database and Analyst Review

Hydrogel Market Trends

- Growing demand from the microwaves industry to boost market growth

Hydrogels are highly absorbent polymers that are used in a variety of end-use industries, including healthcare, agriculture, personal care, and others. In the healthcare industry, hydrogels are used in wound dressings, drug delivery systems, and tissue engineering applications. In agriculture, they are used as soil conditioners and water retention agents. In personal care, they are used in diapers, feminine hygiene products, and contact lenses, among others.

The demand for hydrogels in these industries is primarily driven by factors such as increasing demand for wound care products, rising adoption of hydrogels in drug delivery systems, growing use of hydrogels in agriculture, and increasing awareness about personal hygiene. However, the microwave industry is also emerging as a potential application area for hydrogels. Hydrogels are being used as dielectric materials in microwave antennas, which are used in various applications such as wireless communication, radar systems, and satellite communications. The unique properties of hydrogel, such as their high dielectric constant and low loss tangent, make them an attractive material for use in microwave antennas. Therefore, such factors related to Hydrogel have enhanced the Hydrogel market CAGR across the globe in recent years.

Hydrogel Market Segment Insights

Hydrogel Type Insights

The Hydrogel market segmentation, based on type, includes Natural, Synthetic and Hybrid. The Synthetic segment held the majority share in 2022 of the Hydrogel market revenue. Synthetic hydrogels are produced using various synthetic polymers and are widely used in various applications such as wound care, drug delivery, contact lenses, and hygiene products, among others. Their properties such as high water content, biocompatibility, and versatility have made them increasingly popular in various industries.

Hydrogel Form Insights

The Hydrogel market segmentation, based on Form, includes Amorphous, Semi Crystalline, Crystalline. The Semi Crystalline segment held the majority share in 2022 of the Hydrogel market

revenue. Semi-crystalline hydrogels are a type of hydrogel that possess both amorphous and crystalline regions in their structure. They are known for their high mechanical strength and are commonly used in medical and healthcare applications such as wound dressings and tissue engineering.

Hydrogel Application Insights

Based on application, the Hydrogel market segmentation includes Agriculture, Health Care and Hygiene, Contact Lenses, Drug Delivery Systems, Tissue Engineering and Others. The Health Care and Hygiene segment dominated the market in 2022 and is projected to be the faster-growing segment during the forecast period, 2023-2030. The healthcare industry is one of the primary end-use industries for hydrogels, with applications in wound care, drug delivery, and tissue engineering. The hygiene segment, which includes products such as diapers, feminine hygiene products, and adult incontinence products, is also a significant market for hydrogels. The demand for hydrogels in the healthcare and hygiene segments is expected to continue to grow in the coming years, driven by factors such as an aging population, and rising incidence. These all factors for Hydrogel positively impact the market growth.

Figure 2: Hydrogel Market, by Form, 2022 & 2030 (USD Billion)
Hydrogel Market, by Form

Source: Secondary Research, Primary Research, MRFR Database and Analyst Review

Hydrogel Regional Insights

By region, the study provides market insights into North America, Europe, Asia-Pacific, and the Rest of the World. The Asia Pacific region is a diverse and rapidly growing market with a large population, a rising middle class, and increasing healthcare expenditures. Countries like China, Japan, India, and South Korea are among the key markets for hydrogels in the region. The growing demand for innovative products and increasing R&D investments are some of the key factors driving the growth of the hydrogel market in the Asia Pacific region.

Further, the major countries studied in the market report are The U.S., Canada, Germany, France, the UK, Italy, Spain, China, Japan, India, Australia, South Korea, and Brazil

Figure 3: HYDROGEL MARKET SHARE BY REGION 2022 (%)
HYDROGEL MARKET SHARE BY REGION

Source: Secondary Research, Primary Research, MRFR Database and Analyst Review

Europe's Hydrogel market accounts for the third-largest market share. The presence of a well-established healthcare system, increasing R&D investments, and the growing demand for innovative products are some of the key factors driving the demand for hydrogels in the region. Further, the Germany Hydrogel market held the largest market share, and the UK Hydrogel market was the fastest-growing market in the European region.

North America, Hydrogel market, is expected to be the largest from 2023 to 2030. North America is one of the leading regions in the hydrogel market. The region is witnessing significant growth in the hydrogel market due to the increasing demand for hydrogels in various applications such as wound care, drug delivery, and hygiene products, among others. The presence of well-established healthcare infrastructure, increasing R&D investments, and the growing aging population are some of the key factors driving the demand for hydrogels in North America. Moreover, the region has a strong focus on technological advancements and product innovation, which is expected to further drive the growth of the hydrogel market in the coming years. Moreover, the U.S. Hydrogel market held the largest market share, and the Canada Hydrogel market was the fastest-growing market in the North American region.

Hydrogel Key Market Players & Competitive Insights

Major market players are spending a lot of money on R&D to increase their product lines, which will help the Hydrogel market grow even more. Market participants are also taking a range of strategic initiatives to grow their worldwide footprint, with key market developments such as new product launches, contractual agreements, mergers and acquisitions, increased investments, and collaboration with other organizations. Competitors in the Hydrogel industry must offer cost-effective items to expand and survive in an increasingly competitive and rising market environment.

The major market players are investing a lot of money in R&D to expand their product lines, which will spur further market growth for Hydrogel. With significant market development like new product releases, contractual agreements, mergers and acquisitions, increased investments, and collaboration with other organizations, market participants are also undertaking various strategic activities to expand their presence. To grow and thrive in a market climate that is becoming more competitive and growing, competitors in the Hydrogel industry must offer affordable products.

Manufacturing locally to cut operating costs is one of the main business tactics manufacturers use in the Hydrogel industry to benefit customers and expand the market sector. Major Hydrogel market players, including Johnson & Johnson Private Limited, Cardinal Health, The Cooper Companies, Inc., Dow Corning Corporation, R&D Medical Products Inc, H.B. Fuller Company, NEXGEL, Inc., Axelgaard Manufacturing Co., Ltd., BSN medical, and others, are attempting to increase market

demand by funding R&D initiatives.

Johnson Private Limited is a privately held company based in the United States that operates in various industries including healthcare, consumer goods, and pharmaceuticals. Johnson Private Limited's healthcare division produces a wide range of medical products and devices, including wound care products, orthopedic devices, and cardiovascular equipment. The company's consumer goods division produces well-known brands such as Band-Aid, Tylenol, and Listerine. Johnson Private Limited's pharmaceutical division produces prescription drugs and over-the-counter medications.

Cardinal Health is a healthcare services and products company based in Dublin, Ohio, USA. Cardinal Health operates through two main business segments: Pharmaceutical and Medical. The Pharmaceutical segment distributes brand-name and generic drugs, as well as over-the-counter medications, to pharmacies, hospitals, and other healthcare providers. The Medical segment supplies medical products and devices, including surgical and laboratory equipment, to hospitals and healthcare providers.

Key Companies in the Hydrogel market include

- Johnson & Johnson Private Limited
- Cardinal Health
- The Cooper Companies, Inc.
- Dow Corning Corporation
- R&D Medical Products Inc
- H.B. Fuller Company
- NEXGEL, Inc.
- Axelgaard Manufacturing Co. Ltd.
- BSN medical among others

Hydrogel Industry Developments

January 2022: NEXGEL, Inc., a leading developer of ultra-gentle, high-water-content hydrogel products for healthcare and consumer uses, has launched the MEDAGEL ClearComfort Hydrogel Patch.

Hydrogel Market Segmentation

Hydrogel Type Outlook

- Natural
- Synthetic
- Hybrid

Hydrogel Type Outlook

- Amorphous
- Semi Crystalline
- Crystalline

Hydrogel Application Outlook

- Agriculture
- Health Care and Hygiene
- Contact Lenses
- Drug Delivery Systems
- Tissue Engineering
- Others

Hydrogel Regional Outlook

- North America
 - US
 - Canada
- Europe
 - Germany
 - France
 - UK
 - Italy
 - Spain
 - Rest of Europe
-

Asia-Pacific

- China
- Japan
- India
- Australia
- South Korea
- Australia
- Rest of Asia-Pacific
- Rest of the World
 - Middle East
 - Africa
 - Latin America

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FIGURE 4 Value Chain of Global hydrogel Market

FIGURE 5 Share of Global hydrogel Market in 2022, by country (in %)

FIGURE 6 Global hydrogel Market, 2022-2030,

FIGURE 7 Sub segments of Type

FIGURE 10 Global hydrogel Market size by Type, 2022

FIGURE 10 Share of Global hydrogel Market by Type, 2022-2030

FIGURE 10 Global hydrogel Market size by Composition, 2022

FIGURE 11 Share of Global hydrogel Market by Composition, 2022-2030

FIGURE 12 Global hydrogel Market size by Form, 2022

FIGURE 13 Share of Global hydrogel Market by Form, 2022-2030

FIGURE 14 Global hydrogel Market size by Application, 2022-2030

FIGURE 15 Share of Global hydrogel Market by Application, 2022-2030