

# **Global Hydrogel Market Size Study & Forecast, By Structure (Amorphous, Semi-crystalline, Crystalline) By Material (Polyacrylate, Polyacrylamide, Silicone, Other Materials (Agar, Gelatin, PVP, and PEG)) By End-user Industry (Personal Care and Hygiene, Pharmaceuticals and Healthcare, Food, Agriculture, Other End-user Industries (Forensics and Research)) and Regional Analysis, 2023-2030**

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## **Abstracts**

Global Hydrogel Market is valued at approximately USD 20.19 billion in 2022 and is anticipated to grow with a healthy growth rate of more than 7.10% over the forecast period 2023-2030. Hydrogel is used in various applications, including biomedical, pharmaceutical, agriculture, and environmental fields. In biomedical applications, hydrogels are often utilized in wound dressings, contact lenses, drug delivery systems, and tissue engineering scaffolds due to their biocompatibility and ability to mimic natural extracellular matrices. They can also be engineered to respond to external stimuli such as temperature, pH, or light, making them useful in controlled-release drug delivery systems. The Hydrogel market is expanding because of factors such as increasing populations and rising demand for wound care products. As a result, the demand for Hydrogel has progressively increased in the international market during the forecast period 2023-2030.

Increasing population leads to higher demand for personal care products such as diapers, sanitary napkins, and adult incontinence products. Hydrogels are commonly used in these products for their absorbent properties, providing comfort and convenience. According to the United Nations, the world's population is predicted to

grow by about 2 billion people during the next 30 years, from 8 billion currently to 9.7 billion by 2050, and is anticipated to reach nearly 10.4 billion by the mid-2080s. Another important factor that drives the Hydrogel market is the increasing demand for wound care products. Hydrogels are widely used in medical applications such as wound dressings, drug delivery systems, tissue engineering, and contact lenses. With more people requiring healthcare solutions, the demand for hydrogels in these applications is likely to increase. In addition, as per IEEE Engineering in Medicine and Biology Society, Medicare expenditures associated with wound care, a recent study reveals that expenses linked to both acute and chronic wound treatments range from USD 28.1 billion to USD 96.8 billion. Despite this substantial financial burden, the wound care products market is projected to grow significantly and is anticipated to reach a market value ranging between USD 15 billion and USD 22 billion by the year 2024. Moreover, the rising demand for hydrogel for personal care solutions and growing research and development activities in the field of material science are anticipated to create a lucrative growth opportunity for the market over the forecast period. However, the high production cost of hydrogel and lack of awareness about hydrogel are going to impede overall market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Hydrogel Market study include Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America dominated the market in 2022 owing to the increasing medical research and development expenditure in the region. Researchers are continuously exploring new formulations and applications of hydrogels to address unmet medical needs and improve patient outcomes. Additionally, heightened R&D spending fosters collaborations between academia, industry, and government agencies, facilitating the translation of scientific discoveries into commercially viable products. According to the National Centre for Science and Engineering Statistics, academic institutions invested USD 97.8 billion in research and development in fiscal year 2022, rising a total of USD 8.0 billion from fiscal year 2021. The region's dominant performance is anticipated to propel the overall demand for Hydrogel. Furthermore, Asia Pacific is expected to grow fastest during the forecast period, owing to factors such as growing demand for personal care and hygiene in the region. Hydrogels offer significant advantages over traditional absorbent materials such as cotton or cellulose. Their high absorbency, retention capacity, and ability to distribute moisture evenly make them ideal for use in products where efficient fluid management is essential.

Major market players included in this report are:

3M Minnesota Mining and Manufacturing Company

Ambu A/S

Ashland Global Holdings Inc.

Axelgaard Manufacturing Co., Ltd.

Bausch Health Companies Inc.

Cardinal Health, Inc..

Coloplast Corp.

ConvaTec Group Plc

CooperVision, Inc.

Royal DSM N.V.

Recent Developments in the Market:

In December 2023, NEXGEL, Inc. a prominent provider of medical and over-the-counter (OTC) products, including gentle, high-water-content hydrogels for healthcare and consumer use collaborated with STADA Arzneimittel AG, a key player in consumer health in Europe to distribute and market consumer health OTC products throughout North America in 2024. The collaboration likely involved leveraging STADA's established distribution channels and marketing prowess in Europe to introduce NEXGEL's hydrogel-based products to the North American market.

Global Hydrogel Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered - Structure, Material, End-user Industry Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent to up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope\*

The objective of the study is to define the market sizes of different segments & countries in recent years and to forecast the values for the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters to detailed information about the crucial aspects such as driving factors & challenges that will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with a detailed analysis of the competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

by Structure

Amorphous

Semi-crystalline

Crystalline

by Material

Polyacrylate

Polyacrylamide

Silicone

Other Materials (Agar, Gelatin, PVP, and PEG)

by End-user Industry

Personal Care and Hygiene

Pharmaceuticals and Healthcare

Food

Agriculture

Other End-user Industries (Forensics and Research)

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

RoLA

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

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