

# Hydrogel Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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## Abstracts

The global hydrogel market size reached US\$ 26.2 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 36.9 Billion by 2028, exhibiting a growth rate (CAGR) of 5.7% during 2023-2028.

Hydrogel is a three-dimensional (3D) network of hydrophilic polymers that can absorb and retain a large amount of water without dissolving. It comprises collagen, silk fibroin, hyaluronic acid, chitosan, and alginate, which helps respond to various stimuli, such as pH, temperature, chemical and light. It is flexible, versatile, environment-sensitive, cost-effective, and biocompatible with most cells. As a result, it finds extensive applications in sanitation, monitoring drug delivery, medication delivery systems, microfluids and converting, packaging, coal dewatering, nutrition, and food additives worldwide.

### Hydrogel Market Trends:

The rising employment of hydrogels in the pharmaceutical industry to increase the storage stability of existing medical products represents one of the key factors driving the market. It is also included in wound dressing to moisturize the wound and aid in repairing the epidermis, removing extra dead tissues, and granulating the healing process. In addition, the growing utilization of hydrogels in sanitary products to make thinner pads with higher absorbency and increase swelling pressure and suction power is positively influencing the market. Besides this, non-governmental organizations (NGOs) and governments of several countries are organizing awareness programs to spread awareness about menstrual hygiene. This, coupled with the escalating demand for baby diapers, sanitary napkins, and paper towels across the globe, is contributing to the growth of the market. Furthermore, the increasing usage of hydrogel in contact lenses, biotechnology, and agriculture around the world is stimulating the growth of the market. Other factors projected to offer lucrative growth opportunities to industry players

operating in the market are the rising infant and geriatric population, growing research and development (R&D) to create new and advanced products and technological advancements in the healthcare industry.

#### Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global hydrogel market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on raw material type, form, composition and application.

#### Breakup by Raw Material Type:

- Synthetic
- Natural
- Hybrid

#### Breakup by Form:

- Amorphous
- Semi-crystalline
- Crystalline

#### Breakup by Composition:

- Polyacrylate
- Polyacrylamide
- Silicone-modified Hydrogels (SiH)
- Others

#### Breakup by Application:

- Contact Lenses
- Personal Care and Hygiene
- Wound Care
- Drug Delivery
- Tissue Engineering
- Others

#### Breakup by Region:

North America

United States

Canada

Asia-Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

#### Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being 3M Company, Ashland Global Holdings Inc., B. Braun Melsungen AG, Cardinal Health Inc., Coloplast A/S, Essity AB, Evonik Industries AG, Hoya Corporation, Integra LifeSciences, Johnson & Johnson, Koninklijke DSM N.V., Medline Industries Inc., Medtronic plc, Smith & Nephew plc and The Cooper Companies Inc.

#### Key Questions Answered in This Report

1. What was the size of the global hydrogel market in 2022?
2. What is the expected growth rate of the global hydrogel market during 2023-2028?
3. What are the key factors driving the global hydrogel market?

4. What has been the impact of COVID-19 on the global hydrogel market?
5. What is the breakup of the global hydrogel market based on the raw material type?
6. What is the breakup of the global hydrogel market based on the form?
7. What is the breakup of the global hydrogel market based on the composition?
8. What is the breakup of the global hydrogel market based on the application?
9. What are the key regions in the global hydrogel market?
10. Who are the key players/companies in the global hydrogel market?

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