

Global In Situ Gelling Hydrogel Market Growth 2026-2032

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Abstracts

The global In Situ Gelling Hydrogel market size is predicted to grow from US\$ 885 million in 2025 to US\$ 1242 million in 2032; it is expected to grow at a CAGR of 5.0% from 2026 to 2032.

An In Situ Gelling Hydrogel is a functional material that remains in a liquid, sol, or flowable state before administration and forms a three-dimensional gel network at the target site after injection, spraying, or local application. Gelation can be triggered through chemical crosslinking, temperature response, ionic interaction, pH change, light exposure, enzymatic reaction, or other mechanisms. As In Situ Gelling Hydrogels can conform to irregular tissue surfaces or fill tissue spaces while forming a stable and absorbable local barrier, they are increasingly used in surgical sealing, leakage prevention, postoperative adhesion prevention, tissue spacing for radiation therapy, localized drug delivery, and tissue repair. Based on an estimated market scope covering finished medical products, mainstream In Situ Gelling Hydrogel products are typically priced at approximately USD 300-1,500 per kit, while premium products such as hydrogel spacers for radiation therapy can reach USD 2,000-3,000 per kit, with global annual sales estimated at around 1.0-2.0 million kits.

The upstream supply chain of In Situ Gelling Hydrogels mainly includes polyethylene glycol, poly lactic-co-glycolic acid, polylactic acid, poloxamers, hyaluronic acid, chitosan, gelatin, and other natural or synthetic polymer materials, as well as crosslinking agents, pharmaceutical excipients, active ingredients, syringes, catheters, mixing devices, and spraying systems. Midstream manufacturers are responsible for formulation design, gelation mechanism development, delivery-system integration, sterilization and packaging, quality control, clinical validation, and regulatory registration. Depending on the intended medical use, these companies may provide injectable, sprayable, or locally

applied products. Downstream users primarily include hospitals and other healthcare institutions, with applications in neurosurgery, cardiothoracic surgery, vascular surgery, general surgery, gynecology, urology, radiation oncology, and regenerative medicine.

United States market for In Situ Gelling Hydrogel is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for In Situ Gelling Hydrogel is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for In Situ Gelling Hydrogel is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key In Situ Gelling Hydrogel players cover Boston Scientific, Terumo Corporation, Baxter International, BD, Integra LifeSciences, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the ?In Situ Gelling Hydrogel Industry Forecast? looks at past sales and reviews total world In Situ Gelling Hydrogel sales in 2025, providing a comprehensive analysis by region and market sector of projected In Situ Gelling Hydrogel sales for 2026 through 2032. With In Situ Gelling Hydrogel sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world In Situ Gelling Hydrogel industry.

This Insight Report provides a comprehensive analysis of the global In Situ Gelling Hydrogel landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on In Situ Gelling Hydrogel portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global In Situ Gelling Hydrogel market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for In Situ Gelling Hydrogel and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced

view of the current state and future trajectory in the global In Situ Gelling Hydrogel.

This report presents a comprehensive overview, market shares, and growth opportunities of In Situ Gelling Hydrogel market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Chemically Crosslinked In Situ Hydrogel

Thermosensitive In Situ Hydrogel

Other Stimuli-responsive and Hybrid In Situ Hydrogel

Segmentation by Primary Material Systems:

Synthetic Polymer-based In Situ Hydrogel

Natural Polymer-based In Situ Hydrogel

Composite or Hybrid In Situ Hydrogel

Segmentation by Application Method:

Injectable In Situ Hydrogel

Sprayable In Situ Hydrogel

Topical and Other Locally Applied In Situ Hydrogel

Segmentation by Application:

Surgical Sealing

Postoperative Adhesion Prevention

Tissue Spacing for Radiation Therapy

Other Medical Applications

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Boston Scientific

Terumo Corporation

Baxter International

BD

Integra LifeSciences

Stryker

CGBIO

Genewel

Success Bio-Tech

Medprin Regenerative Medical Technologies

Advanced Medical Solutions

Shanghai Reunion Medical

Pramand

Tulavi Therapeutics

Key Questions Addressed in this Report

What is the 10-year outlook for the global In Situ Gelling Hydrogel market?

What factors are driving In Situ Gelling Hydrogel market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do In Situ Gelling Hydrogel market opportunities vary by end market size?

How does In Situ Gelling Hydrogel break out by Type, by Application?

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