

Global In Situ Gelling Hydrogel Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G6BB99658A85EN.html>

Date: July 2026

Pages: 124

Price: US\$ 3,480.00 (Single User License)

ID: G6BB99658A85EN

Abstracts

According to our (Global Info Research) latest study, the global In Situ Gelling Hydrogel market size was valued at US\$ 931 million in 2025 and is forecast to a readjusted size of US\$ 1285 million by 2032 with a CAGR of 4.7% during review period.

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.

This report is a detailed and comprehensive analysis for global In Situ Gelling Hydrogel market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global In Situ Gelling Hydrogel market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global In Situ Gelling Hydrogel market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global In Situ Gelling Hydrogel market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global In Situ Gelling Hydrogel market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for In Situ Gelling Hydrogel

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global In Situ Gelling Hydrogel market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Boston Scientific, Terumo Corporation, Baxter International, BD, Integra LifeSciences, Stryker, CGBIO, Genewel, Success Bio-Tech, Medprin Regenerative Medical Technologies, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

In Situ Gelling Hydrogel market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

- Chemically Crosslinked In Situ Hydrogel

- Thermosensitive In Situ Hydrogel

- Other Stimuli-responsive and Hybrid In Situ Hydrogel

Market segment by Primary Material Systems

- Synthetic Polymer-based In Situ Hydrogel

- Natural Polymer-based In Situ Hydrogel

- Composite or Hybrid In Situ Hydrogel

Market segment by Application Method

Injectable In Situ Hydrogel

Sprayable In Situ Hydrogel

Topical and Other Locally Applied In Situ Hydrogel

Market segment by Application

Surgical Sealing

Postoperative Adhesion Prevention

Tissue Spacing for Radiation Therapy

Other Medical Applications

Major players covered

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

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe In Situ Gelling Hydrogel product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of In Situ Gelling Hydrogel, with price, sales quantity, revenue, and global market share of In Situ Gelling Hydrogel from 2021 to 2026.

Chapter 3, the In Situ Gelling Hydrogel competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the In Situ Gelling Hydrogel breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by

regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and In Situ Gelling Hydrogel market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of In Situ Gelling Hydrogel.

Chapter 14 and 15, to describe In Situ Gelling Hydrogel sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global In Situ Gelling Hydrogel Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Chemically Crosslinked In Situ Hydrogel

1.3.3 Thermosensitive In Situ Hydrogel

1.3.4 Other Stimuli-responsive and Hybrid In Situ Hydrogel

1.4 Market Analysis by Primary Material Systems

1.4.1 Overview: Global In Situ Gelling Hydrogel Consumption Value by Primary Material Systems: 2021 Versus 2025 Versus 2032

1.4.2 Synthetic Polymer-based In Situ Hydrogel

1.4.3 Natural Polymer-based In Situ Hydrogel

1.4.4 Composite or Hybrid In Situ Hydrogel

1.5 Market Analysis by Application Method

1.5.1 Overview: Global In Situ Gelling Hydrogel Consumption Value by Application Method: 2021 Versus 2025 Versus 2032

1.5.2 Injectable In Situ Hydrogel

1.5.3 Sprayable In Situ Hydrogel

1.5.4 Topical and Other Locally Applied In Situ Hydrogel

1.6 Market Analysis by Application

1.6.1 Overview: Global In Situ Gelling Hydrogel Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.6.2 Surgical Sealing

1.6.3 Postoperative Adhesion Prevention

1.6.4 Tissue Spacing for Radiation Therapy

1.6.5 Other Medical Applications

1.7 Global In Situ Gelling Hydrogel Market Size & Forecast

1.7.1 Global In Situ Gelling Hydrogel Consumption Value (2021 & 2025 & 2032)

1.7.2 Global In Situ Gelling Hydrogel Sales Quantity (2021-2032)

1.7.3 Global In Situ Gelling Hydrogel Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 Boston Scientific

- 2.1.1 Boston Scientific Details
- 2.1.2 Boston Scientific Major Business
- 2.1.3 Boston Scientific In Situ Gelling Hydrogel Product and Services
- 2.1.4 Boston Scientific In Situ Gelling Hydrogel Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.1.5 Boston Scientific Recent Developments/Updates
- 2.2 Terumo Corporation
 - 2.2.1 Terumo Corporation Details
 - 2.2.2 Terumo Corporation Major Business
 - 2.2.3 Terumo Corporation In Situ Gelling Hydrogel Product and Services
 - 2.2.4 Terumo Corporation In Situ Gelling Hydrogel Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.2.5 Terumo Corporation Recent Developments/Updates
- 2.3 Baxter International
 - 2.3.1 Baxter International Details
 - 2.3.2 Baxter International Major Business
 - 2.3.3 Baxter International In Situ Gelling Hydrogel Product and Services
 - 2.3.4 Baxter International In Situ Gelling Hydrogel Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.3.5 Baxter International Recent Developments/Updates
- 2.4 BD
 - 2.4.1 BD Details
 - 2.4.2 BD Major Business
 - 2.4.3 BD In Situ Gelling Hydrogel Product and Services
 - 2.4.4 BD In Situ Gelling Hydrogel Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.4.5 BD Recent Developments/Updates
- 2.5 Integra LifeSciences
 - 2.5.1 Integra LifeSciences Details
 - 2.5.2 Integra LifeSciences Major Business
 - 2.5.3 Integra LifeSciences In Situ Gelling Hydrogel Product and Services
 - 2.5.4 Integra LifeSciences In Situ Gelling Hydrogel Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.5.5 Integra LifeSciences Recent Developments/Updates
- 2.6 Stryker
 - 2.6.1 Stryker Details
 - 2.6.2 Stryker Major Business
 - 2.6.3 Stryker In Situ Gelling Hydrogel Product and Services
 - 2.6.4 Stryker In Situ Gelling Hydrogel Sales Quantity, Average Price, Revenue, Gross

Margin and Market Share (2021-2026)

2.6.5 Stryker Recent Developments/Updates

2.7 CGBIO

2.7.1 CGBIO Details

2.7.2 CGBIO Major Business

2.7.3 CGBIO In Situ Gelling Hydrogel Product and Services

2.7.4 CGBIO In Situ Gelling Hydrogel Sales Quantity, Average Price, Revenue, Gross

Margin and Market Share (2021-2026)

2.7.5 CGBIO Recent Developments/Updates

2.8 Genewel

2.8.1 Genewel Details

2.8.2 Genewel Major Business

2.8.3 Genewel In Situ Gelling Hydrogel Product and Services

2.8.4 Genewel In Situ Gelling Hydrogel Sales Quantity, Average Price, Revenue,

Gross Margin and Market Share (2021-2026)

2.8.5 Genewel Recent Developments/Updates

2.9 Success Bio-Tech

2.9.1 Success Bio-Tech Details

2.9.2 Success Bio-Tech Major Business

2.9.3 Success Bio-Tech In Situ Gelling Hydrogel Product and Services

2.9.4 Success Bio-Tech In Situ Gelling Hydrogel Sales Quantity, Average Price,

Revenue, Gross Margin and Market Share (2021-2026)

2.9.5 Success Bio-Tech Recent Developments/Updates

2.10 Medprin Regenerative Medical Technologies

2.10.1 Medprin Regenerative Medical Technologies Details

2.10.2 Medprin Regenerative Medical Technologies Major Business

2.10.3 Medprin Regenerative Medical Technologies In Situ Gelling Hydrogel Product and Services

2.10.4 Medprin Regenerative Medical Technologies In Situ Gelling Hydrogel Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.10.5 Medprin Regenerative Medical Technologies Recent Developments/Updates

2.11 Advanced Medical Solutions

2.11.1 Advanced Medical Solutions Details

2.11.2 Advanced Medical Solutions Major Business

2.11.3 Advanced Medical Solutions In Situ Gelling Hydrogel Product and Services

2.11.4 Advanced Medical Solutions In Situ Gelling Hydrogel Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.11.5 Advanced Medical Solutions Recent Developments/Updates

2.12 Shanghai Reunion Medical

- 2.12.1 Shanghai Reunion Medical Details
- 2.12.2 Shanghai Reunion Medical Major Business
- 2.12.3 Shanghai Reunion Medical In Situ Gelling Hydrogel Product and Services
- 2.12.4 Shanghai Reunion Medical In Situ Gelling Hydrogel Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.12.5 Shanghai Reunion Medical Recent Developments/Updates
- 2.13 Pramand
 - 2.13.1 Pramand Details
 - 2.13.2 Pramand Major Business
 - 2.13.3 Pramand In Situ Gelling Hydrogel Product and Services
 - 2.13.4 Pramand In Situ Gelling Hydrogel Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.13.5 Pramand Recent Developments/Updates
- 2.14 Tulavi Therapeutics
 - 2.14.1 Tulavi Therapeutics Details
 - 2.14.2 Tulavi Therapeutics Major Business
 - 2.14.3 Tulavi Therapeutics In Situ Gelling Hydrogel Product and Services
 - 2.14.4 Tulavi Therapeutics In Situ Gelling Hydrogel Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.14.5 Tulavi Therapeutics Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: IN SITU GELLING HYDROGEL BY MANUFACTURER

- 3.1 Global In Situ Gelling Hydrogel Sales Quantity by Manufacturer (2021-2026)
- 3.2 Global In Situ Gelling Hydrogel Revenue by Manufacturer (2021-2026)
- 3.3 Global In Situ Gelling Hydrogel Average Price by Manufacturer (2021-2026)
- 3.4 Market Share Analysis (2025)
 - 3.4.1 Producer Shipments of In Situ Gelling Hydrogel by Manufacturer Revenue (\$MM) and Market Share (%): 2025
 - 3.4.2 Top 3 In Situ Gelling Hydrogel Manufacturer Market Share in 2025
 - 3.4.3 Top 6 In Situ Gelling Hydrogel Manufacturer Market Share in 2025
- 3.5 In Situ Gelling Hydrogel Market: Overall Company Footprint Analysis
 - 3.5.1 In Situ Gelling Hydrogel Market: Region Footprint
 - 3.5.2 In Situ Gelling Hydrogel Market: Company Product Type Footprint
 - 3.5.3 In Situ Gelling Hydrogel Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global In Situ Gelling Hydrogel Market Size by Region

- 4.1.1 Global In Situ Gelling Hydrogel Sales Quantity by Region (2021-2032)
- 4.1.2 Global In Situ Gelling Hydrogel Consumption Value by Region (2021-2032)
- 4.1.3 Global In Situ Gelling Hydrogel Average Price by Region (2021-2032)

4.2 North America In Situ Gelling Hydrogel Consumption Value (2021-2032)

4.3 Europe In Situ Gelling Hydrogel Consumption Value (2021-2032)

4.4 Asia-Pacific In Situ Gelling Hydrogel Consumption Value (2021-2032)

4.5 South America In Situ Gelling Hydrogel Consumption Value (2021-2032)

4.6 Middle East & Africa In Situ Gelling Hydrogel Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

5.1 Global In Situ Gelling Hydrogel Sales Quantity by Type (2021-2032)

5.2 Global In Situ Gelling Hydrogel Consumption Value by Type (2021-2032)

5.3 Global In Situ Gelling Hydrogel Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

6.1 Global In Situ Gelling Hydrogel Sales Quantity by Application (2021-2032)

6.2 Global In Situ Gelling Hydrogel Consumption Value by Application (2021-2032)

6.3 Global In Situ Gelling Hydrogel Average Price by Application (2021-2032)

7 NORTH AMERICA

7.1 North America In Situ Gelling Hydrogel Sales Quantity by Type (2021-2032)

7.2 North America In Situ Gelling Hydrogel Sales Quantity by Application (2021-2032)

7.3 North America In Situ Gelling Hydrogel Market Size by Country

7.3.1 North America In Situ Gelling Hydrogel Sales Quantity by Country (2021-2032)

7.3.2 North America In Situ Gelling Hydrogel Consumption Value by Country (2021-2032)

7.3.3 United States Market Size and Forecast (2021-2032)

7.3.4 Canada Market Size and Forecast (2021-2032)

7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

8.1 Europe In Situ Gelling Hydrogel Sales Quantity by Type (2021-2032)

- 8.2 Europe In Situ Gelling Hydrogel Sales Quantity by Application (2021-2032)
- 8.3 Europe In Situ Gelling Hydrogel Market Size by Country
 - 8.3.1 Europe In Situ Gelling Hydrogel Sales Quantity by Country (2021-2032)
 - 8.3.2 Europe In Situ Gelling Hydrogel Consumption Value by Country (2021-2032)
 - 8.3.3 Germany Market Size and Forecast (2021-2032)
 - 8.3.4 France Market Size and Forecast (2021-2032)
 - 8.3.5 United Kingdom Market Size and Forecast (2021-2032)
 - 8.3.6 Russia Market Size and Forecast (2021-2032)
 - 8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

- 9.1 Asia-Pacific In Situ Gelling Hydrogel Sales Quantity by Type (2021-2032)
- 9.2 Asia-Pacific In Situ Gelling Hydrogel Sales Quantity by Application (2021-2032)
- 9.3 Asia-Pacific In Situ Gelling Hydrogel Market Size by Region
 - 9.3.1 Asia-Pacific In Situ Gelling Hydrogel Sales Quantity by Region (2021-2032)
 - 9.3.2 Asia-Pacific In Situ Gelling Hydrogel Consumption Value by Region (2021-2032)
 - 9.3.3 China Market Size and Forecast (2021-2032)
 - 9.3.4 Japan Market Size and Forecast (2021-2032)
 - 9.3.5 South Korea Market Size and Forecast (2021-2032)
 - 9.3.6 India Market Size and Forecast (2021-2032)
 - 9.3.7 Southeast Asia Market Size and Forecast (2021-2032)
 - 9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

- 10.1 South America In Situ Gelling Hydrogel Sales Quantity by Type (2021-2032)
- 10.2 South America In Situ Gelling Hydrogel Sales Quantity by Application (2021-2032)
- 10.3 South America In Situ Gelling Hydrogel Market Size by Country
 - 10.3.1 South America In Situ Gelling Hydrogel Sales Quantity by Country (2021-2032)
 - 10.3.2 South America In Situ Gelling Hydrogel Consumption Value by Country (2021-2032)
 - 10.3.3 Brazil Market Size and Forecast (2021-2032)
 - 10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

- 11.1 Middle East & Africa In Situ Gelling Hydrogel Sales Quantity by Type (2021-2032)
- 11.2 Middle East & Africa In Situ Gelling Hydrogel Sales Quantity by Application

(2021-2032)

11.3 Middle East & Africa In Situ Gelling Hydrogel Market Size by Country

11.3.1 Middle East & Africa In Situ Gelling Hydrogel Sales Quantity by Country

(2021-2032)

11.3.2 Middle East & Africa In Situ Gelling Hydrogel Consumption Value by Country

(2021-2032)

11.3.3 Turkey Market Size and Forecast (2021-2032)

11.3.4 Egypt Market Size and Forecast (2021-2032)

11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)

11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

12.1 In Situ Gelling Hydrogel Market Drivers

12.2 In Situ Gelling Hydrogel Market Restraints

12.3 In Situ Gelling Hydrogel Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of In Situ Gelling Hydrogel and Key Manufacturers

13.2 Manufacturing Costs Percentage of In Situ Gelling Hydrogel

13.3 In Situ Gelling Hydrogel Production Process

13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 In Situ Gelling Hydrogel Typical Distributors

14.3 In Situ Gelling Hydrogel Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global In Situ Gelling Hydrogel Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global In Situ Gelling Hydrogel Consumption Value by Primary Material Systems, (USD Million), 2021 & 2025 & 2032

Table 3. Global In Situ Gelling Hydrogel Consumption Value by Application Method, (USD Million), 2021 & 2025 & 2032

Table 4. Global In Situ Gelling Hydrogel Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 5. Boston Scientific Basic Information, Manufacturing Base and Competitors

Table 6. Boston Scientific Major Business

Table 7. Boston Scientific In Situ Gelling Hydrogel Product and Services

Table 8. Boston Scientific In Situ Gelling Hydrogel Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 9. Boston Scientific Recent Developments/Updates

Table 10. Terumo Corporation Basic Information, Manufacturing Base and Competitors

Table 11. Terumo Corporation Major Business

Table 12. Terumo Corporation In Situ Gelling Hydrogel Product and Services

Table 13. Terumo Corporation In Situ Gelling Hydrogel Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 14. Terumo Corporation Recent Developments/Updates

Table 15. Baxter International Basic Information, Manufacturing Base and Competitors

Table 16. Baxter International Major Business

Table 17. Baxter International In Situ Gelling Hydrogel Product and Services

Table 18. Baxter International In Situ Gelling Hydrogel Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 19. Baxter International Recent Developments/Updates

Table 20. BD Basic Information, Manufacturing Base and Competitors

Table 21. BD Major Business

Table 22. BD In Situ Gelling Hydrogel Product and Services

Table 23. BD In Situ Gelling Hydrogel Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 24. BD Recent Developments/Updates

Table 25. Integra LifeSciences Basic Information, Manufacturing Base and Competitors

Table 26. Integra LifeSciences Major Business

Table 27. Integra LifeSciences In Situ Gelling Hydrogel Product and Services

Table 28. Integra LifeSciences In Situ Gelling Hydrogel Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 29. Integra LifeSciences Recent Developments/Updates

Table 30. Stryker Basic Information, Manufacturing Base and Competitors

Table 31. Stryker Major Business

Table 32. Stryker In Situ Gelling Hydrogel Product and Services

Table 33. Stryker In Situ Gelling Hydrogel Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 34. Stryker Recent Developments/Updates

Table 35. CGBIO Basic Information, Manufacturing Base and Competitors

Table 36. CGBIO Major Business

Table 37. CGBIO In Situ Gelling Hydrogel Product and Services

Table 38. CGBIO In Situ Gelling Hydrogel Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 39. CGBIO Recent Developments/Updates

Table 40. Genewel Basic Information, Manufacturing Base and Competitors

Table 41. Genewel Major Business

Table 42. Genewel In Situ Gelling Hydrogel Product and Services

Table 43. Genewel In Situ Gelling Hydrogel Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 44. Genewel Recent Developments/Updates

Table 45. Success Bio-Tech Basic Information, Manufacturing Base and Competitors

Table 46. Success Bio-Tech Major Business

Table 47. Success Bio-Tech In Situ Gelling Hydrogel Product and Services

Table 48. Success Bio-Tech In Situ Gelling Hydrogel Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 49. Success Bio-Tech Recent Developments/Updates

Table 50. Medprin Regenerative Medical Technologies Basic Information, Manufacturing Base and Competitors

Table 51. Medprin Regenerative Medical Technologies Major Business

Table 52. Medprin Regenerative Medical Technologies In Situ Gelling Hydrogel Product and Services

Table 53. Medprin Regenerative Medical Technologies In Situ Gelling Hydrogel Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 54. Medprin Regenerative Medical Technologies Recent Developments/Updates

Table 55. Advanced Medical Solutions Basic Information, Manufacturing Base and Competitors

Table 56. Advanced Medical Solutions Major Business

Table 57. Advanced Medical Solutions In Situ Gelling Hydrogel Product and Services

Table 58. Advanced Medical Solutions In Situ Gelling Hydrogel Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 59. Advanced Medical Solutions Recent Developments/Updates

Table 60. Shanghai Reunion Medical Basic Information, Manufacturing Base and Competitors

Table 61. Shanghai Reunion Medical Major Business

Table 62. Shanghai Reunion Medical In Situ Gelling Hydrogel Product and Services

Table 63. Shanghai Reunion Medical In Situ Gelling Hydrogel Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 64. Shanghai Reunion Medical Recent Developments/Updates

Table 65. Pramand Basic Information, Manufacturing Base and Competitors

Table 66. Pramand Major Business

Table 67. Pramand In Situ Gelling Hydrogel Product and Services

Table 68. Pramand In Situ Gelling Hydrogel Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 69. Pramand Recent Developments/Updates

Table 70. Tulavi Therapeutics Basic Information, Manufacturing Base and Competitors

Table 71. Tulavi Therapeutics Major Business

Table 72. Tulavi Therapeutics In Situ Gelling Hydrogel Product and Services

Table 73. Tulavi Therapeutics In Situ Gelling Hydrogel Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 74. Tulavi Therapeutics Recent Developments/Updates

Table 75. Global In Situ Gelling Hydrogel Sales Quantity by Manufacturer (2021-2026) & (K Units)

Table 76. Global In Situ Gelling Hydrogel Revenue by Manufacturer (2021-2026) & (USD Million)

Table 77. Global In Situ Gelling Hydrogel Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 78. Market Position of Manufacturers in In Situ Gelling Hydrogel, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 79. Head Office and In Situ Gelling Hydrogel Production Site of Key Manufacturer

Table 80. In Situ Gelling Hydrogel Market: Company Product Type Footprint

Table 81. In Situ Gelling Hydrogel Market: Company Product Application Footprint

Table 82. In Situ Gelling Hydrogel New Market Entrants and Barriers to Market Entry

Table 83. In Situ Gelling Hydrogel Mergers, Acquisition, Agreements, and Collaborations

Table 84. Global In Situ Gelling Hydrogel Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 85. Global In Situ Gelling Hydrogel Sales Quantity by Region (2021-2026) & (K Units)

Table 86. Global In Situ Gelling Hydrogel Sales Quantity by Region (2027-2032) & (K Units)

Table 87. Global In Situ Gelling Hydrogel Consumption Value by Region (2021-2026) & (USD Million)

Table 88. Global In Situ Gelling Hydrogel Consumption Value by Region (2027-2032) & (USD Million)

Table 89. Global In Situ Gelling Hydrogel Average Price by Region (2021-2026) & (US\$/Unit)

Table 90. Global In Situ Gelling Hydrogel Average Price by Region (2027-2032) & (US\$/Unit)

Table 91. Global In Situ Gelling Hydrogel Sales Quantity by Type (2021-2026) & (K Units)

Table 92. Global In Situ Gelling Hydrogel Sales Quantity by Type (2027-2032) & (K Units)

Table 93. Global In Situ Gelling Hydrogel Consumption Value by Type (2021-2026) & (USD Million)

Table 94. Global In Situ Gelling Hydrogel Consumption Value by Type (2027-2032) & (USD Million)

Table 95. Global In Situ Gelling Hydrogel Average Price by Type (2021-2026) & (US\$/Unit)

Table 96. Global In Situ Gelling Hydrogel Average Price by Type (2027-2032) & (US\$/Unit)

Table 97. Global In Situ Gelling Hydrogel Sales Quantity by Application (2021-2026) & (K Units)

Table 98. Global In Situ Gelling Hydrogel Sales Quantity by Application (2027-2032) & (K Units)

Table 99. Global In Situ Gelling Hydrogel Consumption Value by Application (2021-2026) & (USD Million)

Table 100. Global In Situ Gelling Hydrogel Consumption Value by Application (2027-2032) & (USD Million)

Table 101. Global In Situ Gelling Hydrogel Average Price by Application (2021-2026) &

(US\$/Unit)

Table 102. Global In Situ Gelling Hydrogel Average Price by Application (2027-2032) & (US\$/Unit)

Table 103. North America In Situ Gelling Hydrogel Sales Quantity by Type (2021-2026) & (K Units)

Table 104. North America In Situ Gelling Hydrogel Sales Quantity by Type (2027-2032) & (K Units)

Table 105. North America In Situ Gelling Hydrogel Sales Quantity by Application (2021-2026) & (K Units)

Table 106. North America In Situ Gelling Hydrogel Sales Quantity by Application (2027-2032) & (K Units)

Table 107. North America In Situ Gelling Hydrogel Sales Quantity by Country (2021-2026) & (K Units)

Table 108. North America In Situ Gelling Hydrogel Sales Quantity by Country (2027-2032) & (K Units)

Table 109. North America In Situ Gelling Hydrogel Consumption Value by Country (2021-2026) & (USD Million)

Table 110. North America In Situ Gelling Hydrogel Consumption Value by Country (2027-2032) & (USD Million)

Table 111. Europe In Situ Gelling Hydrogel Sales Quantity by Type (2021-2026) & (K Units)

Table 112. Europe In Situ Gelling Hydrogel Sales Quantity by Type (2027-2032) & (K Units)

Table 113. Europe In Situ Gelling Hydrogel Sales Quantity by Application (2021-2026) & (K Units)

Table 114. Europe In Situ Gelling Hydrogel Sales Quantity by Application (2027-2032) & (K Units)

Table 115. Europe In Situ Gelling Hydrogel Sales Quantity by Country (2021-2026) & (K Units)

Table 116. Europe In Situ Gelling Hydrogel Sales Quantity by Country (2027-2032) & (K Units)

Table 117. Europe In Situ Gelling Hydrogel Consumption Value by Country (2021-2026) & (USD Million)

Table 118. Europe In Situ Gelling Hydrogel Consumption Value by Country (2027-2032) & (USD Million)

Table 119. Asia-Pacific In Situ Gelling Hydrogel Sales Quantity by Type (2021-2026) & (K Units)

Table 120. Asia-Pacific In Situ Gelling Hydrogel Sales Quantity by Type (2027-2032) & (K Units)

Table 121. Asia-Pacific In Situ Gelling Hydrogel Sales Quantity by Application (2021-2026) & (K Units)

Table 122. Asia-Pacific In Situ Gelling Hydrogel Sales Quantity by Application (2027-2032) & (K Units)

Table 123. Asia-Pacific In Situ Gelling Hydrogel Sales Quantity by Region (2021-2026) & (K Units)

Table 124. Asia-Pacific In Situ Gelling Hydrogel Sales Quantity by Region (2027-2032) & (K Units)

Table 125. Asia-Pacific In Situ Gelling Hydrogel Consumption Value by Region (2021-2026) & (USD Million)

Table 126. Asia-Pacific In Situ Gelling Hydrogel Consumption Value by Region (2027-2032) & (USD Million)

Table 127. South America In Situ Gelling Hydrogel Sales Quantity by Type (2021-2026) & (K Units)

Table 128. South America In Situ Gelling Hydrogel Sales Quantity by Type (2027-2032) & (K Units)

Table 129. South America In Situ Gelling Hydrogel Sales Quantity by Application (2021-2026) & (K Units)

Table 130. South America In Situ Gelling Hydrogel Sales Quantity by Application (2027-2032) & (K Units)

Table 131. South America In Situ Gelling Hydrogel Sales Quantity by Country (2021-2026) & (K Units)

Table 132. South America In Situ Gelling Hydrogel Sales Quantity by Country (2027-2032) & (K Units)

Table 133. South America In Situ Gelling Hydrogel Consumption Value by Country (2021-2026) & (USD Million)

Table 134. South America In Situ Gelling Hydrogel Consumption Value by Country (2027-2032) & (USD Million)

Table 135. Middle East & Africa In Situ Gelling Hydrogel Sales Quantity by Type (2021-2026) & (K Units)

Table 136. Middle East & Africa In Situ Gelling Hydrogel Sales Quantity by Type (2027-2032) & (K Units)

Table 137. Middle East & Africa In Situ Gelling Hydrogel Sales Quantity by Application (2021-2026) & (K Units)

Table 138. Middle East & Africa In Situ Gelling Hydrogel Sales Quantity by Application (2027-2032) & (K Units)

Table 139. Middle East & Africa In Situ Gelling Hydrogel Sales Quantity by Country (2021-2026) & (K Units)

Table 140. Middle East & Africa In Situ Gelling Hydrogel Sales Quantity by Country

(2027-2032) & (K Units)

Table 141. Middle East & Africa In Situ Gelling Hydrogel Consumption Value by Country (2021-2026) & (USD Million)

Table 142. Middle East & Africa In Situ Gelling Hydrogel Consumption Value by Country (2027-2032) & (USD Million)

Table 143. In Situ Gelling Hydrogel Raw Material

Table 144. Key Manufacturers of In Situ Gelling Hydrogel Raw Materials

Table 145. In Situ Gelling Hydrogel Typical Distributors

Table 146. In Situ Gelling Hydrogel Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. In Situ Gelling Hydrogel Picture
- Figure 2. Global In Situ Gelling Hydrogel Revenue by Type, (USD Million), 2021 & 2025 & 2032
- Figure 3. Global In Situ Gelling Hydrogel Revenue Market Share by Type in 2025
- Figure 4. Chemically Crosslinked In Situ Hydrogel Examples
- Figure 5. Thermosensitive In Situ Hydrogel Examples
- Figure 6. Other Stimuli-responsive and Hybrid In Situ Hydrogel Examples
- Figure 7. Global In Situ Gelling Hydrogel Revenue by Primary Material Systems, (USD Million), 2021 & 2025 & 2032
- Figure 8. Global In Situ Gelling Hydrogel Revenue Market Share by Primary Material Systems in 2025
- Figure 9. Synthetic Polymer-based In Situ Hydrogel Examples
- Figure 10. Natural Polymer-based In Situ Hydrogel Examples
- Figure 11. Composite or Hybrid In Situ Hydrogel Examples
- Figure 12. Global In Situ Gelling Hydrogel Revenue by Application Method, (USD Million), 2021 & 2025 & 2032
- Figure 13. Global In Situ Gelling Hydrogel Revenue Market Share by Application Method in 2025
- Figure 14. Injectable In Situ Hydrogel Examples
- Figure 15. Sprayable In Situ Hydrogel Examples
- Figure 16. Topical and Other Locally Applied In Situ Hydrogel Examples
- Figure 17. Global In Situ Gelling Hydrogel Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 18. Global In Situ Gelling Hydrogel Revenue Market Share by Application in 2025
- Figure 19. Surgical Sealing Examples
- Figure 20. Postoperative Adhesion Prevention Examples
- Figure 21. Tissue Spacing for Radiation Therapy Examples
- Figure 22. Other Medical Applications Examples
- Figure 23. Global In Situ Gelling Hydrogel Consumption Value, (USD Million): 2021 & 2025 & 2032
- Figure 24. Global In Situ Gelling Hydrogel Consumption Value and Forecast (2021-2032) & (USD Million)
- Figure 25. Global In Situ Gelling Hydrogel Sales Quantity (2021-2032) & (K Units)
- Figure 26. Global In Situ Gelling Hydrogel Price (2021-2032) & (US\$/Unit)

Figure 27. Global In Situ Gelling Hydrogel Sales Quantity Market Share by Manufacturer in 2025

Figure 28. Global In Situ Gelling Hydrogel Revenue Market Share by Manufacturer in 2025

Figure 29. Producer Shipments of In Situ Gelling Hydrogel by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 30. Top 3 In Situ Gelling Hydrogel Manufacturer (Revenue) Market Share in 2025

Figure 31. Top 6 In Situ Gelling Hydrogel Manufacturer (Revenue) Market Share in 2025

Figure 32. Global In Situ Gelling Hydrogel Sales Quantity Market Share by Region (2021-2032)

Figure 33. Global In Situ Gelling Hydrogel Consumption Value Market Share by Region (2021-2032)

Figure 34. North America In Situ Gelling Hydrogel Consumption Value (2021-2032) & (USD Million)

Figure 35. Europe In Situ Gelling Hydrogel Consumption Value (2021-2032) & (USD Million)

Figure 36. Asia-Pacific In Situ Gelling Hydrogel Consumption Value (2021-2032) & (USD Million)

Figure 37. South America In Situ Gelling Hydrogel Consumption Value (2021-2032) & (USD Million)

Figure 38. Middle East & Africa In Situ Gelling Hydrogel Consumption Value (2021-2032) & (USD Million)

Figure 39. Global In Situ Gelling Hydrogel Sales Quantity Market Share by Type (2021-2032)

Figure 40. Global In Situ Gelling Hydrogel Consumption Value Market Share by Type (2021-2032)

Figure 41. Global In Situ Gelling Hydrogel Average Price by Type (2021-2032) & (US\$/Unit)

Figure 42. Global In Situ Gelling Hydrogel Sales Quantity Market Share by Application (2021-2032)

Figure 43. Global In Situ Gelling Hydrogel Revenue Market Share by Application (2021-2032)

Figure 44. Global In Situ Gelling Hydrogel Average Price by Application (2021-2032) & (US\$/Unit)

Figure 45. North America In Situ Gelling Hydrogel Sales Quantity Market Share by Type (2021-2032)

Figure 46. North America In Situ Gelling Hydrogel Sales Quantity Market Share by

Application (2021-2032)

Figure 47. North America In Situ Gelling Hydrogel Sales Quantity Market Share by Country (2021-2032)

Figure 48. North America In Situ Gelling Hydrogel Consumption Value Market Share by Country (2021-2032)

Figure 49. United States In Situ Gelling Hydrogel Consumption Value (2021-2032) & (USD Million)

Figure 50. Canada In Situ Gelling Hydrogel Consumption Value (2021-2032) & (USD Million)

Figure 51. Mexico In Situ Gelling Hydrogel Consumption Value (2021-2032) & (USD Million)

Figure 52. Europe In Situ Gelling Hydrogel Sales Quantity Market Share by Type (2021-2032)

Figure 53. Europe In Situ Gelling Hydrogel Sales Quantity Market Share by Application (2021-2032)

Figure 54. Europe In Situ Gelling Hydrogel Sales Quantity Market Share by Country (2021-2032)

Figure 55. Europe In Situ Gelling Hydrogel Consumption Value Market Share by Country (2021-2032)

Figure 56. Germany In Situ Gelling Hydrogel Consumption Value (2021-2032) & (USD Million)

Figure 57. France In Situ Gelling Hydrogel Consumption Value (2021-2032) & (USD Million)

Figure 58. United Kingdom In Situ Gelling Hydrogel Consumption Value (2021-2032) & (USD Million)

Figure 59. Russia In Situ Gelling Hydrogel Consumption Value (2021-2032) & (USD Million)

Figure 60. Italy In Situ Gelling Hydrogel Consumption Value (2021-2032) & (USD Million)

Figure 61. Asia-Pacific In Situ Gelling Hydrogel Sales Quantity Market Share by Type (2021-2032)

Figure 62. Asia-Pacific In Situ Gelling Hydrogel Sales Quantity Market Share by Application (2021-2032)

Figure 63. Asia-Pacific In Situ Gelling Hydrogel Sales Quantity Market Share by Region (2021-2032)

Figure 64. Asia-Pacific In Situ Gelling Hydrogel Consumption Value Market Share by Region (2021-2032)

Figure 65. China In Situ Gelling Hydrogel Consumption Value (2021-2032) & (USD Million)

Figure 66. Japan In Situ Gelling Hydrogel Consumption Value (2021-2032) & (USD Million)

Figure 67. South Korea In Situ Gelling Hydrogel Consumption Value (2021-2032) & (USD Million)

Figure 68. India In Situ Gelling Hydrogel Consumption Value (2021-2032) & (USD Million)

Figure 69. Southeast Asia In Situ Gelling Hydrogel Consumption Value (2021-2032) & (USD Million)

Figure 70. Australia In Situ Gelling Hydrogel Consumption Value (2021-2032) & (USD Million)

Figure 71. South America In Situ Gelling Hydrogel Sales Quantity Market Share by Type (2021-2032)

Figure 72. South America In Situ Gelling Hydrogel Sales Quantity Market Share by Application (2021-2032)

Figure 73. South America In Situ Gelling Hydrogel Sales Quantity Market Share by Country (2021-2032)

Figure 74. South America In Situ Gelling Hydrogel Consumption Value Market Share by Country (2021-2032)

Figure 75. Brazil In Situ Gelling Hydrogel Consumption Value (2021-2032) & (USD Million)

Figure 76. Argentina In Situ Gelling Hydrogel Consumption Value (2021-2032) & (USD Million)

Figure 77. Middle East & Africa In Situ Gelling Hydrogel Sales Quantity Market Share by Type (2021-2032)

Figure 78. Middle East & Africa In Situ Gelling Hydrogel Sales Quantity Market Share by Application (2021-2032)

Figure 79. Middle East & Africa In Situ Gelling Hydrogel Sales Quantity Market Share by Country (2021-2032)

Figure 80. Middle East & Africa In Situ Gelling Hydrogel Consumption Value Market Share by Country (2021-2032)

Figure 81. Turkey In Situ Gelling Hydrogel Consumption Value (2021-2032) & (USD Million)

Figure 82. Egypt In Situ Gelling Hydrogel Consumption Value (2021-2032) & (USD Million)

Figure 83. Saudi Arabia In Situ Gelling Hydrogel Consumption Value (2021-2032) & (USD Million)

Figure 84. South Africa In Situ Gelling Hydrogel Consumption Value (2021-2032) & (USD Million)

Figure 85. In Situ Gelling Hydrogel Market Drivers

Figure 86. In Situ Gelling Hydrogel Market Restraints

Figure 87. In Situ Gelling Hydrogel Market Trends

Figure 88. Porters Five Forces Analysis

Figure 89. Manufacturing Cost Structure Analysis of In Situ Gelling Hydrogel in 2025

Figure 90. Manufacturing Process Analysis of In Situ Gelling Hydrogel

Figure 91. In Situ Gelling Hydrogel Industrial Chain

Figure 92. Sales Channel: Direct to End-User vs Distributors

Figure 93. Direct Channel Pros & Cons

Figure 94. Indirect Channel Pros & Cons

Figure 95. Methodology

Figure 96. Research Process and Data Source

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