

Global Shape Memory Hydrogel Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Shape Memory Hydrogel market size is expected to reach \$ 2191 million by 2032, rising at a market growth of 16.4% CAGR during the forecast period (2026-2032).

Shape Memory Hydrogel is a class of smart polymer hydrogel that can remember a predefined shape and recover it after deformation when exposed to external stimuli such as temperature, pH, light, magnetic field, or moisture. This behavior is typically achieved through dual-network or reversible crosslinking structures, combining a permanent network (chemical crosslinks) that defines the original shape and a temporary network (physical interactions such as hydrogen bonding, ionic interactions, or crystallization) that fixes the temporary shape. In the supply chain, upstream includes raw materials such as natural or synthetic polymers (e.g., polyvinyl alcohol (PVA), polyethylene glycol (PEG), polyacrylamide (PAAm), alginate, gelatin), crosslinking agents, nanofillers (e.g., graphene oxide, silica nanoparticles), and functional additives; midstream involves hydrogel formulation, polymerization (chemical or physical crosslinking), processing (casting, 3D printing, freeze-thaw cycles), and functional modification to impart shape-memory properties; downstream applications span biomedical devices (tissue engineering scaffolds, drug delivery systems, minimally invasive implants), soft robotics, wearable sensors, actuators, and smart textiles, with end users including healthcare, electronics, and advanced materials industries. In 2025, global Shape Memory Hydrogel output was about 55,000 tons with 80,000 tons of capacity, average prices of USD 12,000-40,000 per ton, and gross margins around 43%.

This report studies the global Shape Memory Hydrogel production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Shape Memory Hydrogel and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Shape Memory Hydrogel that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Shape Memory Hydrogel total production and demand, 2021-2032, (Tons)

Global Shape Memory Hydrogel total production value, 2021-2032, (USD Million)

Global Shape Memory Hydrogel production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Shape Memory Hydrogel consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Shape Memory Hydrogel domestic production, consumption, key domestic manufacturers and share

Global Shape Memory Hydrogel production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Shape Memory Hydrogel production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Shape Memory Hydrogel production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Shape Memory Hydrogel market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include 3M Company (USA), Smith+Nephew (UK), ConvaTec (UK), Coloplast (Denmark), M?lnlycke (Sweden), Paul Hartmann (Germany), Ocular Therapeutix (USA), Seikagaku (Japan), Axelgaard (USA), Katecho (USA), etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Shape Memory Hydrogel market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by

manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Shape Memory Hydrogel Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Shape Memory Hydrogel Market, Segmentation by Type:

Physically Crosslinked Hydrogel

Chemically Crosslinked Hydrogel

Hybrid Crosslinked Hydrogel

Global Shape Memory Hydrogel Market, Segmentation by Elastic Modulus:

1-10 kPa

10-300 kPa

Global Shape Memory Hydrogel Market, Segmentation by Application:

Healthcare

Soft Robotic

Wearable Device

Others

Companies Profiled:

3M Company (USA)

Smith+Nephew (UK)

ConvaTec (UK)

Coloplast (Denmark)

M?Inlycke (Sweden)

Paul Hartmann (Germany)

Ocular Therapeutix (USA)

Seikagaku (Japan)

Axelgaard (USA)

Katecho (USA)

Polymer Science (USA)

SupraPolix (Netherlands)

Contipro (Czech)

PeptiGelDesign (UK)

Gelomics (Australia)

Wuhan Huawei Technology (China)

Haohai Biological Technology (China)

Quanding Medical (China)

Key Questions Answered:

1. How big is the global Shape Memory Hydrogel market?
2. What is the demand of the global Shape Memory Hydrogel market?
3. What is the year over year growth of the global Shape Memory Hydrogel market?
4. What is the production and production value of the global Shape Memory Hydrogel market?
5. Who are the key producers in the global Shape Memory Hydrogel market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Shape Memory Hydrogel Introduction
- 1.2 World Shape Memory Hydrogel Supply & Forecast
 - 1.2.1 World Shape Memory Hydrogel Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Shape Memory Hydrogel Production (2021-2032)
 - 1.2.3 World Shape Memory Hydrogel Pricing Trends (2021-2032)
- 1.3 World Shape Memory Hydrogel Production by Region (Based on Production Site)
 - 1.3.1 World Shape Memory Hydrogel Production Value by Region (2021-2032)
 - 1.3.2 World Shape Memory Hydrogel Production by Region (2021-2032)
 - 1.3.3 World Shape Memory Hydrogel Average Price by Region (2021-2032)
 - 1.3.4 North America Shape Memory Hydrogel Production (2021-2032)
 - 1.3.5 Europe Shape Memory Hydrogel Production (2021-2032)
 - 1.3.6 China Shape Memory Hydrogel Production (2021-2032)
 - 1.3.7 Japan Shape Memory Hydrogel Production (2021-2032)
 - 1.3.8 India Shape Memory Hydrogel Production (2021-2032)
 - 1.3.9 Southeast Asia Shape Memory Hydrogel Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Shape Memory Hydrogel Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Shape Memory Hydrogel Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Shape Memory Hydrogel Demand (2021-2032)
- 2.2 World Shape Memory Hydrogel Consumption by Region
 - 2.2.1 World Shape Memory Hydrogel Consumption by Region (2021-2026)
 - 2.2.2 World Shape Memory Hydrogel Consumption Forecast by Region (2027-2032)
- 2.3 United States Shape Memory Hydrogel Consumption (2021-2032)
- 2.4 China Shape Memory Hydrogel Consumption (2021-2032)
- 2.5 Europe Shape Memory Hydrogel Consumption (2021-2032)
- 2.6 Japan Shape Memory Hydrogel Consumption (2021-2032)
- 2.7 South Korea Shape Memory Hydrogel Consumption (2021-2032)
- 2.8 ASEAN Shape Memory Hydrogel Consumption (2021-2032)
- 2.9 India Shape Memory Hydrogel Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Shape Memory Hydrogel Production Value by Manufacturer (2021-2026)
- 3.2 World Shape Memory Hydrogel Production by Manufacturer (2021-2026)
- 3.3 World Shape Memory Hydrogel Average Price by Manufacturer (2021-2026)
- 3.4 Shape Memory Hydrogel Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Shape Memory Hydrogel Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Shape Memory Hydrogel in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Shape Memory Hydrogel in 2025
- 3.6 Shape Memory Hydrogel Market: Overall Company Footprint Analysis
 - 3.6.1 Shape Memory Hydrogel Market: Region Footprint
 - 3.6.2 Shape Memory Hydrogel Market: Company Product Type Footprint
 - 3.6.3 Shape Memory Hydrogel Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Shape Memory Hydrogel Production Value Comparison
 - 4.1.1 United States VS China: Shape Memory Hydrogel Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Shape Memory Hydrogel Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Shape Memory Hydrogel Production Comparison
 - 4.2.1 United States VS China: Shape Memory Hydrogel Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Shape Memory Hydrogel Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Shape Memory Hydrogel Consumption Comparison
 - 4.3.1 United States VS China: Shape Memory Hydrogel Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Shape Memory Hydrogel Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Shape Memory Hydrogel Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Shape Memory Hydrogel Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Shape Memory Hydrogel Production Value (2021-2026)

4.4.3 United States Based Manufacturers Shape Memory Hydrogel Production (2021-2026)

4.5 China Based Shape Memory Hydrogel Manufacturers and Market Share

4.5.1 China Based Shape Memory Hydrogel Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Shape Memory Hydrogel Production Value (2021-2026)

4.5.3 China Based Manufacturers Shape Memory Hydrogel Production (2021-2026)

4.6 Rest of World Based Shape Memory Hydrogel Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Shape Memory Hydrogel Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Shape Memory Hydrogel Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Shape Memory Hydrogel Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Shape Memory Hydrogel Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Physically Crosslinked Hydrogel

5.2.2 Chemically Crosslinked Hydrogel

5.2.3 Hybrid Crosslinked Hydrogel

5.3 Market Segment by Type

5.3.1 World Shape Memory Hydrogel Production by Type (2021-2032)

5.3.2 World Shape Memory Hydrogel Production Value by Type (2021-2032)

5.3.3 World Shape Memory Hydrogel Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY ELASTIC MODULUS

6.1 World Shape Memory Hydrogel Market Size Overview by Elastic Modulus: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Elastic Modulus

6.2.1 1-10 kPa

6.2.2 10-300 kPa

6.3 Market Segment by Elastic Modulus

6.3.1 World Shape Memory Hydrogel Production by Elastic Modulus (2021-2032)

6.3.2 World Shape Memory Hydrogel Production Value by Elastic Modulus (2021-2032)

6.3.3 World Shape Memory Hydrogel Average Price by Elastic Modulus (2021-2032)

7 MARKET ANALYSIS BY APPLICATION

7.1 World Shape Memory Hydrogel Market Size Overview by Application: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Application

7.2.1 Healthcare

7.2.2 Soft Robotic

7.2.3 Wearable Device

7.2.4 Others

7.3 Market Segment by Application

7.3.1 World Shape Memory Hydrogel Production by Application (2021-2032)

7.3.2 World Shape Memory Hydrogel Production Value by Application (2021-2032)

7.3.3 World Shape Memory Hydrogel Average Price by Application (2021-2032)

8 COMPANY PROFILES

8.1 3M Company (USA)

8.1.1 3M Company (USA) Details

8.1.2 3M Company (USA) Major Business

8.1.3 3M Company (USA) Shape Memory Hydrogel Product and Services

8.1.4 3M Company (USA) Shape Memory Hydrogel Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.1.5 3M Company (USA) Recent Developments/Updates

8.1.6 3M Company (USA) Competitive Strengths & Weaknesses

8.2 Smith+Nephew (UK)

8.2.1 Smith+Nephew (UK) Details

8.2.2 Smith+Nephew (UK) Major Business

8.2.3 Smith+Nephew (UK) Shape Memory Hydrogel Product and Services

8.2.4 Smith+Nephew (UK) Shape Memory Hydrogel Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.2.5 Smith+Nephew (UK) Recent Developments/Updates

8.2.6 Smith+Nephew (UK) Competitive Strengths & Weaknesses

8.3 ConvaTec (UK)

8.3.1 ConvaTec (UK) Details

8.3.2 ConvaTec (UK) Major Business

8.3.3 ConvaTec (UK) Shape Memory Hydrogel Product and Services

8.3.4 ConvaTec (UK) Shape Memory Hydrogel Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.3.5 ConvaTec (UK) Recent Developments/Updates

8.3.6 ConvaTec (UK) Competitive Strengths & Weaknesses

8.4 Coloplast (Denmark)

8.4.1 Coloplast (Denmark) Details

8.4.2 Coloplast (Denmark) Major Business

8.4.3 Coloplast (Denmark) Shape Memory Hydrogel Product and Services

8.4.4 Coloplast (Denmark) Shape Memory Hydrogel Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.4.5 Coloplast (Denmark) Recent Developments/Updates

8.4.6 Coloplast (Denmark) Competitive Strengths & Weaknesses

8.5 M?Inlycke (Sweden)

8.5.1 M?Inlycke (Sweden) Details

8.5.2 M?Inlycke (Sweden) Major Business

8.5.3 M?Inlycke (Sweden) Shape Memory Hydrogel Product and Services

8.5.4 M?Inlycke (Sweden) Shape Memory Hydrogel Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.5.5 M?Inlycke (Sweden) Recent Developments/Updates

8.5.6 M?Inlycke (Sweden) Competitive Strengths & Weaknesses

8.6 Paul Hartmann (Germany)

8.6.1 Paul Hartmann (Germany) Details

8.6.2 Paul Hartmann (Germany) Major Business

8.6.3 Paul Hartmann (Germany) Shape Memory Hydrogel Product and Services

8.6.4 Paul Hartmann (Germany) Shape Memory Hydrogel Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.6.5 Paul Hartmann (Germany) Recent Developments/Updates

8.6.6 Paul Hartmann (Germany) Competitive Strengths & Weaknesses

8.7 Ocular Therapeutix (USA)

8.7.1 Ocular Therapeutix (USA) Details

8.7.2 Ocular Therapeutix (USA) Major Business

8.7.3 Ocular Therapeutix (USA) Shape Memory Hydrogel Product and Services

8.7.4 Ocular Therapeutix (USA) Shape Memory Hydrogel Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.7.5 Ocular Therapeutix (USA) Recent Developments/Updates

8.7.6 Ocular Therapeutix (USA) Competitive Strengths & Weaknesses

8.8 Seikagaku (Japan)

8.8.1 Seikagaku (Japan) Details

8.8.2 Seikagaku (Japan) Major Business

8.8.3 Seikagaku (Japan) Shape Memory Hydrogel Product and Services

8.8.4 Seikagaku (Japan) Shape Memory Hydrogel Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.8.5 Seikagaku (Japan) Recent Developments/Updates

8.8.6 Seikagaku (Japan) Competitive Strengths & Weaknesses

8.9 Axelgaard (USA)

8.9.1 Axelgaard (USA) Details

8.9.2 Axelgaard (USA) Major Business

8.9.3 Axelgaard (USA) Shape Memory Hydrogel Product and Services

8.9.4 Axelgaard (USA) Shape Memory Hydrogel Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.9.5 Axelgaard (USA) Recent Developments/Updates

8.9.6 Axelgaard (USA) Competitive Strengths & Weaknesses

8.10 Katecho (USA)

8.10.1 Katecho (USA) Details

8.10.2 Katecho (USA) Major Business

8.10.3 Katecho (USA) Shape Memory Hydrogel Product and Services

8.10.4 Katecho (USA) Shape Memory Hydrogel Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.10.5 Katecho (USA) Recent Developments/Updates

8.10.6 Katecho (USA) Competitive Strengths & Weaknesses

8.11 Polymer Science (USA)

8.11.1 Polymer Science (USA) Details

8.11.2 Polymer Science (USA) Major Business

8.11.3 Polymer Science (USA) Shape Memory Hydrogel Product and Services

8.11.4 Polymer Science (USA) Shape Memory Hydrogel Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.11.5 Polymer Science (USA) Recent Developments/Updates

8.11.6 Polymer Science (USA) Competitive Strengths & Weaknesses

8.12 SupraPolix (Netherlands)

8.12.1 SupraPolix (Netherlands) Details

8.12.2 SupraPolix (Netherlands) Major Business

8.12.3 SupraPolix (Netherlands) Shape Memory Hydrogel Product and Services

8.12.4 SupraPolix (Netherlands) Shape Memory Hydrogel Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 8.12.5 SupraPolix (Netherlands) Recent Developments/Updates
- 8.12.6 SupraPolix (Netherlands) Competitive Strengths & Weaknesses
- 8.13 Contipro (Czech)
 - 8.13.1 Contipro (Czech) Details
 - 8.13.2 Contipro (Czech) Major Business
 - 8.13.3 Contipro (Czech) Shape Memory Hydrogel Product and Services
 - 8.13.4 Contipro (Czech) Shape Memory Hydrogel Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.13.5 Contipro (Czech) Recent Developments/Updates
 - 8.13.6 Contipro (Czech) Competitive Strengths & Weaknesses
- 8.14 PeptiGelDesign (UK)
 - 8.14.1 PeptiGelDesign (UK) Details
 - 8.14.2 PeptiGelDesign (UK) Major Business
 - 8.14.3 PeptiGelDesign (UK) Shape Memory Hydrogel Product and Services
 - 8.14.4 PeptiGelDesign (UK) Shape Memory Hydrogel Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.14.5 PeptiGelDesign (UK) Recent Developments/Updates
 - 8.14.6 PeptiGelDesign (UK) Competitive Strengths & Weaknesses
- 8.15 Gelomics (Australia)
 - 8.15.1 Gelomics (Australia) Details
 - 8.15.2 Gelomics (Australia) Major Business
 - 8.15.3 Gelomics (Australia) Shape Memory Hydrogel Product and Services
 - 8.15.4 Gelomics (Australia) Shape Memory Hydrogel Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.15.5 Gelomics (Australia) Recent Developments/Updates
 - 8.15.6 Gelomics (Australia) Competitive Strengths & Weaknesses
- 8.16 Wuhan Huawei Technology (China)
 - 8.16.1 Wuhan Huawei Technology (China) Details
 - 8.16.2 Wuhan Huawei Technology (China) Major Business
 - 8.16.3 Wuhan Huawei Technology (China) Shape Memory Hydrogel Product and Services
 - 8.16.4 Wuhan Huawei Technology (China) Shape Memory Hydrogel Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.16.5 Wuhan Huawei Technology (China) Recent Developments/Updates
 - 8.16.6 Wuhan Huawei Technology (China) Competitive Strengths & Weaknesses
- 8.17 Haohai Biological Technology (China)
 - 8.17.1 Haohai Biological Technology (China) Details
 - 8.17.2 Haohai Biological Technology (China) Major Business
 - 8.17.3 Haohai Biological Technology (China) Shape Memory Hydrogel Product and

Services

8.17.4 Haohai Biological Technology (China) Shape Memory Hydrogel Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.17.5 Haohai Biological Technology (China) Recent Developments/Updates

8.17.6 Haohai Biological Technology (China) Competitive Strengths & Weaknesses

8.18 Quanding Medical (China)

8.18.1 Quanding Medical (China) Details

8.18.2 Quanding Medical (China) Major Business

8.18.3 Quanding Medical (China) Shape Memory Hydrogel Product and Services

8.18.4 Quanding Medical (China) Shape Memory Hydrogel Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.18.5 Quanding Medical (China) Recent Developments/Updates

8.18.6 Quanding Medical (China) Competitive Strengths & Weaknesses

9 INDUSTRY CHAIN ANALYSIS

9.1 Shape Memory Hydrogel Industry Chain

9.2 Shape Memory Hydrogel Upstream Analysis

9.2.1 Shape Memory Hydrogel Core Raw Materials

9.2.2 Main Manufacturers of Shape Memory Hydrogel Core Raw Materials

9.3 Midstream Analysis

9.4 Downstream Analysis

9.5 Shape Memory Hydrogel Production Mode

9.6 Shape Memory Hydrogel Procurement Model

9.7 Shape Memory Hydrogel Industry Sales Model and Sales Channels

9.7.1 Shape Memory Hydrogel Sales Model

9.7.2 Shape Memory Hydrogel Typical Distributors

10 RESEARCH FINDINGS AND CONCLUSION

11 APPENDIX

11.1 Methodology

11.2 Research Process and Data Source

11.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Shape Memory Hydrogel Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Shape Memory Hydrogel Production Value by Region (2021-2026) & (USD Million)

Table 3. World Shape Memory Hydrogel Production Value by Region (2027-2032) & (USD Million)

Table 4. World Shape Memory Hydrogel Production Value Market Share by Region (2021-2026)

Table 5. World Shape Memory Hydrogel Production Value Market Share by Region (2027-2032)

Table 6. World Shape Memory Hydrogel Production by Region (2021-2026) & (Tons)

Table 7. World Shape Memory Hydrogel Production by Region (2027-2032) & (Tons)

Table 8. World Shape Memory Hydrogel Production Market Share by Region (2021-2026)

Table 9. World Shape Memory Hydrogel Production Market Share by Region (2027-2032)

Table 10. World Shape Memory Hydrogel Average Price by Region (2021-2026) & (US\$/Ton)

Table 11. World Shape Memory Hydrogel Average Price by Region (2027-2032) & (US\$/Ton)

Table 12. Shape Memory Hydrogel Major Market Trends

Table 13. World Shape Memory Hydrogel Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Tons)

Table 14. World Shape Memory Hydrogel Consumption by Region (2021-2026) & (Tons)

Table 15. World Shape Memory Hydrogel Consumption Forecast by Region (2027-2032) & (Tons)

Table 16. World Shape Memory Hydrogel Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Shape Memory Hydrogel Producers in 2025

Table 18. World Shape Memory Hydrogel Production by Manufacturer (2021-2026) & (Tons)

Table 19. Production Market Share of Key Shape Memory Hydrogel Producers in 2025

Table 20. World Shape Memory Hydrogel Average Price by Manufacturer (2021-2026)

& (US\$/Ton)

Table 21. Global Shape Memory Hydrogel Company Evaluation Quadrant

Table 22. World Shape Memory Hydrogel Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Shape Memory Hydrogel Production Site of Key Manufacturer

Table 24. Shape Memory Hydrogel Market: Company Product Type Footprint

Table 25. Shape Memory Hydrogel Market: Company Product Application Footprint

Table 26. Shape Memory Hydrogel Competitive Factors

Table 27. Shape Memory Hydrogel New Entrant and Capacity Expansion Plans

Table 28. Shape Memory Hydrogel Mergers & Acquisitions Activity

Table 29. United States VS China Shape Memory Hydrogel Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Shape Memory Hydrogel Production Comparison, (2021 & 2025 & 2032) & (Tons)

Table 31. United States VS China Shape Memory Hydrogel Consumption Comparison, (2021 & 2025 & 2032) & (Tons)

Table 32. United States Based Shape Memory Hydrogel Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Shape Memory Hydrogel Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Shape Memory Hydrogel Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Shape Memory Hydrogel Production (2021-2026) & (Tons)

Table 36. United States Based Manufacturers Shape Memory Hydrogel Production Market Share (2021-2026)

Table 37. China Based Shape Memory Hydrogel Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Shape Memory Hydrogel Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Shape Memory Hydrogel Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Shape Memory Hydrogel Production, (2021-2026) & (Tons)

Table 41. China Based Manufacturers Shape Memory Hydrogel Production Market Share (2021-2026)

Table 42. Rest of World Based Shape Memory Hydrogel Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Shape Memory Hydrogel Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Shape Memory Hydrogel Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Shape Memory Hydrogel Production, (2021-2026) & (Tons)

Table 46. Rest of World Based Manufacturers Shape Memory Hydrogel Production Market Share (2021-2026)

Table 47. World Shape Memory Hydrogel Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Shape Memory Hydrogel Production by Type (2021-2026) & (Tons)

Table 49. World Shape Memory Hydrogel Production by Type (2027-2032) & (Tons)

Table 50. World Shape Memory Hydrogel Production Value by Type (2021-2026) & (USD Million)

Table 51. World Shape Memory Hydrogel Production Value by Type (2027-2032) & (USD Million)

Table 52. World Shape Memory Hydrogel Average Price by Type (2021-2026) & (US\$/Ton)

Table 53. World Shape Memory Hydrogel Average Price by Type (2027-2032) & (US\$/Ton)

Table 54. World Shape Memory Hydrogel Production Value by Elastic Modulus, (USD Million), 2021 & 2025 & 2032

Table 55. World Shape Memory Hydrogel Production by Elastic Modulus (2021-2026) & (Tons)

Table 56. World Shape Memory Hydrogel Production by Elastic Modulus (2027-2032) & (Tons)

Table 57. World Shape Memory Hydrogel Production Value by Elastic Modulus (2021-2026) & (USD Million)

Table 58. World Shape Memory Hydrogel Production Value by Elastic Modulus (2027-2032) & (USD Million)

Table 59. World Shape Memory Hydrogel Average Price by Elastic Modulus (2021-2026) & (US\$/Ton)

Table 60. World Shape Memory Hydrogel Average Price by Elastic Modulus (2027-2032) & (US\$/Ton)

Table 61. World Shape Memory Hydrogel Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 62. World Shape Memory Hydrogel Production by Application (2021-2026) & (Tons)

Table 63. World Shape Memory Hydrogel Production by Application (2027-2032) &

(Tons)

Table 64. World Shape Memory Hydrogel Production Value by Application (2021-2026) & (USD Million)

Table 65. World Shape Memory Hydrogel Production Value by Application (2027-2032) & (USD Million)

Table 66. World Shape Memory Hydrogel Average Price by Application (2021-2026) & (US\$/Ton)

Table 67. World Shape Memory Hydrogel Average Price by Application (2027-2032) & (US\$/Ton)

Table 68. 3M Company (USA) Basic Information, Manufacturing Base and Competitors

Table 69. 3M Company (USA) Major Business

Table 70. 3M Company (USA) Shape Memory Hydrogel Product and Services

Table 71. 3M Company (USA) Shape Memory Hydrogel Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 72. 3M Company (USA) Recent Developments/Updates

Table 73. 3M Company (USA) Competitive Strengths & Weaknesses

Table 74. Smith+Nephew (UK) Basic Information, Manufacturing Base and Competitors

Table 75. Smith+Nephew (UK) Major Business

Table 76. Smith+Nephew (UK) Shape Memory Hydrogel Product and Services

Table 77. Smith+Nephew (UK) Shape Memory Hydrogel Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 78. Smith+Nephew (UK) Recent Developments/Updates

Table 79. Smith+Nephew (UK) Competitive Strengths & Weaknesses

Table 80. ConvaTec (UK) Basic Information, Manufacturing Base and Competitors

Table 81. ConvaTec (UK) Major Business

Table 82. ConvaTec (UK) Shape Memory Hydrogel Product and Services

Table 83. ConvaTec (UK) Shape Memory Hydrogel Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 84. ConvaTec (UK) Recent Developments/Updates

Table 85. ConvaTec (UK) Competitive Strengths & Weaknesses

Table 86. Coloplast (Denmark) Basic Information, Manufacturing Base and Competitors

Table 87. Coloplast (Denmark) Major Business

Table 88. Coloplast (Denmark) Shape Memory Hydrogel Product and Services

Table 89. Coloplast (Denmark) Shape Memory Hydrogel Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 90. Coloplast (Denmark) Recent Developments/Updates

Table 91. Coloplast (Denmark) Competitive Strengths & Weaknesses
Table 92. M?Inlycke (Sweden) Basic Information, Manufacturing Base and Competitors
Table 93. M?Inlycke (Sweden) Major Business
Table 94. M?Inlycke (Sweden) Shape Memory Hydrogel Product and Services
Table 95. M?Inlycke (Sweden) Shape Memory Hydrogel Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 96. M?Inlycke (Sweden) Recent Developments/Updates
Table 97. M?Inlycke (Sweden) Competitive Strengths & Weaknesses
Table 98. Paul Hartmann (Germany) Basic Information, Manufacturing Base and Competitors
Table 99. Paul Hartmann (Germany) Major Business
Table 100. Paul Hartmann (Germany) Shape Memory Hydrogel Product and Services
Table 101. Paul Hartmann (Germany) Shape Memory Hydrogel Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 102. Paul Hartmann (Germany) Recent Developments/Updates
Table 103. Paul Hartmann (Germany) Competitive Strengths & Weaknesses
Table 104. Ocular Therapeutix (USA) Basic Information, Manufacturing Base and Competitors
Table 105. Ocular Therapeutix (USA) Major Business
Table 106. Ocular Therapeutix (USA) Shape Memory Hydrogel Product and Services
Table 107. Ocular Therapeutix (USA) Shape Memory Hydrogel Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 108. Ocular Therapeutix (USA) Recent Developments/Updates
Table 109. Ocular Therapeutix (USA) Competitive Strengths & Weaknesses
Table 110. Seikagaku (Japan) Basic Information, Manufacturing Base and Competitors
Table 111. Seikagaku (Japan) Major Business
Table 112. Seikagaku (Japan) Shape Memory Hydrogel Product and Services
Table 113. Seikagaku (Japan) Shape Memory Hydrogel Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 114. Seikagaku (Japan) Recent Developments/Updates
Table 115. Seikagaku (Japan) Competitive Strengths & Weaknesses
Table 116. Axelgaard (USA) Basic Information, Manufacturing Base and Competitors
Table 117. Axelgaard (USA) Major Business
Table 118. Axelgaard (USA) Shape Memory Hydrogel Product and Services
Table 119. Axelgaard (USA) Shape Memory Hydrogel Production (Tons), Price

(US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 120. Axelgaard (USA) Recent Developments/Updates

Table 121. Axelgaard (USA) Competitive Strengths & Weaknesses

Table 122. Katecho (USA) Basic Information, Manufacturing Base and Competitors

Table 123. Katecho (USA) Major Business

Table 124. Katecho (USA) Shape Memory Hydrogel Product and Services

Table 125. Katecho (USA) Shape Memory Hydrogel Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 126. Katecho (USA) Recent Developments/Updates

Table 127. Katecho (USA) Competitive Strengths & Weaknesses

Table 128. Polymer Science (USA) Basic Information, Manufacturing Base and Competitors

Table 129. Polymer Science (USA) Major Business

Table 130. Polymer Science (USA) Shape Memory Hydrogel Product and Services

Table 131. Polymer Science (USA) Shape Memory Hydrogel Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 132. Polymer Science (USA) Recent Developments/Updates

Table 133. Polymer Science (USA) Competitive Strengths & Weaknesses

Table 134. SupraPolix (Netherlands) Basic Information, Manufacturing Base and Competitors

Table 135. SupraPolix (Netherlands) Major Business

Table 136. SupraPolix (Netherlands) Shape Memory Hydrogel Product and Services

Table 137. SupraPolix (Netherlands) Shape Memory Hydrogel Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 138. SupraPolix (Netherlands) Recent Developments/Updates

Table 139. SupraPolix (Netherlands) Competitive Strengths & Weaknesses

Table 140. Contipro (Czech) Basic Information, Manufacturing Base and Competitors

Table 141. Contipro (Czech) Major Business

Table 142. Contipro (Czech) Shape Memory Hydrogel Product and Services

Table 143. Contipro (Czech) Shape Memory Hydrogel Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 144. Contipro (Czech) Recent Developments/Updates

Table 145. Contipro (Czech) Competitive Strengths & Weaknesses

Table 146. PeptiGelDesign (UK) Basic Information, Manufacturing Base and

Competitors

Table 147. PeptiGelDesign (UK) Major Business

Table 148. PeptiGelDesign (UK) Shape Memory Hydrogel Product and Services

Table 149. PeptiGelDesign (UK) Shape Memory Hydrogel Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 150. PeptiGelDesign (UK) Recent Developments/Updates

Table 151. PeptiGelDesign (UK) Competitive Strengths & Weaknesses

Table 152. Gelomics (Australia) Basic Information, Manufacturing Base and Competitors

Table 153. Gelomics (Australia) Major Business

Table 154. Gelomics (Australia) Shape Memory Hydrogel Product and Services

Table 155. Gelomics (Australia) Shape Memory Hydrogel Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 156. Gelomics (Australia) Recent Developments/Updates

Table 157. Gelomics (Australia) Competitive Strengths & Weaknesses

Table 158. Wuhan Huawei Technology (China) Basic Information, Manufacturing Base and Competitors

Table 159. Wuhan Huawei Technology (China) Major Business

Table 160. Wuhan Huawei Technology (China) Shape Memory Hydrogel Product and Services

Table 161. Wuhan Huawei Technology (China) Shape Memory Hydrogel Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 162. Wuhan Huawei Technology (China) Recent Developments/Updates

Table 163. Wuhan Huawei Technology (China) Competitive Strengths & Weaknesses

Table 164. Haohai Biological Technology (China) Basic Information, Manufacturing Base and Competitors

Table 165. Haohai Biological Technology (China) Major Business

Table 166. Haohai Biological Technology (China) Shape Memory Hydrogel Product and Services

Table 167. Haohai Biological Technology (China) Shape Memory Hydrogel Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 168. Haohai Biological Technology (China) Recent Developments/Updates

Table 169. Haohai Biological Technology (China) Competitive Strengths & Weaknesses

Table 170. Quanding Medical (China) Basic Information, Manufacturing Base and Competitors

Table 171. Quanding Medical (China) Major Business
Table 172. Quanding Medical (China) Shape Memory Hydrogel Product and Services
Table 173. Quanding Medical (China) Shape Memory Hydrogel Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 174. Quanding Medical (China) Recent Developments/Updates
Table 175. Quanding Medical (China) Competitive Strengths & Weaknesses
Table 176. Global Key Players of Shape Memory Hydrogel Upstream (Raw Materials)
Table 177. Global Shape Memory Hydrogel Typical Customers
Table 178. Shape Memory Hydrogel Typical Distributors

List Of Figures

LIST OF FIGURES

- Figure 1. Shape Memory Hydrogel Picture
- Figure 2. World Shape Memory Hydrogel Production Value: 2021 & 2025 & 2032, (USD Million)
- Figure 3. World Shape Memory Hydrogel Production Value and Forecast (2021-2032) & (USD Million)
- Figure 4. World Shape Memory Hydrogel Production (2021-2032) & (Tons)
- Figure 5. World Shape Memory Hydrogel Average Price (2021-2032) & (US\$/Ton)
- Figure 6. World Shape Memory Hydrogel Production Value Market Share by Region (2021-2032)
- Figure 7. World Shape Memory Hydrogel Production Market Share by Region (2021-2032)
- Figure 8. North America Shape Memory Hydrogel Production (2021-2032) & (Tons)
- Figure 9. Europe Shape Memory Hydrogel Production (2021-2032) & (Tons)
- Figure 10. China Shape Memory Hydrogel Production (2021-2032) & (Tons)
- Figure 11. Japan Shape Memory Hydrogel Production (2021-2032) & (Tons)
- Figure 12. India Shape Memory Hydrogel Production (2021-2032) & (Tons)
- Figure 13. Southeast Asia Shape Memory Hydrogel Production (2021-2032) & (Tons)
- Figure 14. Shape Memory Hydrogel Market Drivers
- Figure 15. Factors Affecting Demand
- Figure 16. World Shape Memory Hydrogel Consumption (2021-2032) & (Tons)
- Figure 17. World Shape Memory Hydrogel Consumption Market Share by Region (2021-2032)
- Figure 18. United States Shape Memory Hydrogel Consumption (2021-2032) & (Tons)
- Figure 19. China Shape Memory Hydrogel Consumption (2021-2032) & (Tons)
- Figure 20. Europe Shape Memory Hydrogel Consumption (2021-2032) & (Tons)
- Figure 21. Japan Shape Memory Hydrogel Consumption (2021-2032) & (Tons)
- Figure 22. South Korea Shape Memory Hydrogel Consumption (2021-2032) & (Tons)
- Figure 23. ASEAN Shape Memory Hydrogel Consumption (2021-2032) & (Tons)
- Figure 24. India Shape Memory Hydrogel Consumption (2021-2032) & (Tons)
- Figure 25. Producer Shipments of Shape Memory Hydrogel by Manufacturer Revenue (\$MM) and Market Share (%): 2025
- Figure 26. Global Four-firm Concentration Ratios (CR4) for Shape Memory Hydrogel Markets in 2025
- Figure 27. Global Four-firm Concentration Ratios (CR8) for Shape Memory Hydrogel Markets in 2025

Figure 28. United States VS China: Shape Memory Hydrogel Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Shape Memory Hydrogel Production Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: Shape Memory Hydrogel Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States Based Manufacturers Shape Memory Hydrogel Production Market Share 2025

Figure 32. China Based Manufacturers Shape Memory Hydrogel Production Market Share 2025

Figure 33. Rest of World Based Manufacturers Shape Memory Hydrogel Production Market Share 2025

Figure 34. World Shape Memory Hydrogel Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 35. World Shape Memory Hydrogel Production Value Market Share by Type in 2025

Figure 36. Physically Crosslinked Hydrogel

Figure 37. Chemically Crosslinked Hydrogel

Figure 38. Hybrid Crosslinked Hydrogel

Figure 39. World Shape Memory Hydrogel Production Market Share by Type (2021-2032)

Figure 40. World Shape Memory Hydrogel Production Value Market Share by Type (2021-2032)

Figure 41. World Shape Memory Hydrogel Average Price by Type (2021-2032) & (US\$/Ton)

Figure 42. World Shape Memory Hydrogel Production Value by Elastic Modulus, (USD Million), 2021 & 2025 & 2032

Figure 43. World Shape Memory Hydrogel Production Value Market Share by Elastic Modulus in 2025

Figure 44. 1-10 kPa

Figure 45. 10-300 kPa

Figure 46. World Shape Memory Hydrogel Production Market Share by Elastic Modulus (2021-2032)

Figure 47. World Shape Memory Hydrogel Production Value Market Share by Elastic Modulus (2021-2032)

Figure 48. World Shape Memory Hydrogel Average Price by Elastic Modulus (2021-2032) & (US\$/Ton)

Figure 49. World Shape Memory Hydrogel Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 50. World Shape Memory Hydrogel Production Value Market Share by Application in 2025

Figure 51. Healthcare

Figure 52. Soft Robotic

Figure 53. Wearable Device

Figure 54. Others

Figure 55. World Shape Memory Hydrogel Production Market Share by Application (2021-2032)

Figure 56. World Shape Memory Hydrogel Production Value Market Share by Application (2021-2032)

Figure 57. World Shape Memory Hydrogel Average Price by Application (2021-2032) & (US\$/Ton)

Figure 58. Shape Memory Hydrogel Industry Chain

Figure 59. Shape Memory Hydrogel Procurement Model

Figure 60. Shape Memory Hydrogel Sales Model

Figure 61. Shape Memory Hydrogel Sales Channels, Direct Sales, and Distribution

Figure 62. Methodology

Figure 63. Research Process and Data Source

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