

Global Sol-Gel Nanocoating Market Growth 2026-2032

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Abstracts

The global Sol-Gel Nanocoating market size is predicted to grow from US\$ 1223 million in 2025 to US\$ 2102 million in 2032; it is expected to grow at a CAGR of 8.1% from 2026 to 2032.

In 2025, global Sol-Gel Nanocoating production reached approximately 27,777.78 tons, with an average global market price of around US\$45 per kg.

The gross profit margin of major companies in the industry is between 30%-50%.

In 2025, the global production capacity of Sol-Gel Nanocoating was approximately 37,037.04 tons.

Sol-Gel Nanocoating is a functional coating prepared through sol-gel chemistry, forming thin inorganic or hybrid nano-structured layers on glass, metal, ceramic, plastic, textile, or electronic surfaces. It can provide anti-corrosion, anti-scratch, hydrophobic, self-cleaning, anti-fogging, heat-resistant, optical, antibacterial, or barrier properties for advanced surface protection.

The industrial chain of Sol-Gel Nanocoating covers upstream precursors, silanes, solvents, catalysts, nanoparticles, additives, resins, dispersants, and coating equipment. The midstream consists of formulation design, sol preparation, aging control, dispersion, coating, curing, surface treatment, testing, and packaging. Downstream applications mainly include automotive glass, electronics, building glass, solar panels, medical devices, cookware, textiles, aerospace parts, and industrial protective surfaces.

Advanced material research, electronic protection and high-precision equipment surface treatment promote the development of sol-gel nanocoatings. It provides ultra-thin, high-density protective layers with corrosion resistance and wear resistance.

Low-temperature preparation technology expands its compatibility with various base materials.

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

This Insight Report provides a comprehensive analysis of the global Sol-Gel Nanocoating 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 Sol-Gel Nanocoating portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Sol-Gel Nanocoating market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Sol-Gel Nanocoating 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 Sol-Gel Nanocoating.

This report presents a comprehensive overview, market shares, and growth opportunities of Sol-Gel Nanocoating market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Anti-Corrosion Sol-Gel Nanocoating

Anti-Fouling Sol-Gel Nanocoating

Scratch-Resistant Sol-Gel Nanocoating

Segmentation by Substrate:

Glass Sol-Gel Nanocoating

Metal Sol-Gel Nanocoating

Ceramic Sol-Gel Nanocoating

Segmentation by Coating Thickness:

Thin Coating (<100nm)

Medium Coating (100-500nm)

Thick Coating (>500nm)

Segmentation by Application:

Surface Protection

Self-Cleaning Treatment

Optical and Barrier Enhancement

Other

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.

SOCOMORE

Henkel

Chemetall

SurTec International

NEI Corporation

Nanovere Technologies

Nano-Care Deutschland

Nanopool

PPG Industries

AkzoNobel

Nanophase Technologies

Shanghai Huzheng Nanotechnology

Suzhou Ginet New Material Technology

Hangzhou Wanjing New Material

Guangzhou GBS High-Tech & Industry

Shenzhen Nanotech Port

Key Questions Addressed in this Report

What is the 10-year outlook for the global Sol-Gel Nanocoating market?

What factors are driving Sol-Gel Nanocoating market growth, globally and by region?
Which technologies are poised for the fastest growth by market and region?
How do Sol-Gel Nanocoating market opportunities vary by end market size?
How does Sol-Gel Nanocoating break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global Sol-Gel Nanocoating Annual Sales 2021-2032
 - 2.1.2 World Current & Future Analysis for Sol-Gel Nanocoating by Geographic Region, 2021, 2025 & 2032
 - 2.1.3 World Current & Future Analysis for Sol-Gel Nanocoating by Country/Region, 2021, 2025 & 2032
- 2.2 Sol-Gel Nanocoating Segment by Type
 - 2.2.1 Anti-Corrosion Sol-Gel Nanocoating
 - 2.2.2 Anti-Fouling Sol-Gel Nanocoating
 - 2.2.3 Scratch-Resistant Sol-Gel Nanocoating
 - 2.2.4 Sol-Gel Nanocoating Sales by Type
 - 2.2.4.1 Global Sol-Gel Nanocoating Sales Market Share by Type (2021-2026)
 - 2.2.4.2 Global Sol-Gel Nanocoating Revenue and Market Share by Type (2021-2026)
 - 2.2.4.3 Global Sol-Gel Nanocoating Sale Price by Type (2021-2026)
- 2.3 Sol-Gel Nanocoating Segment by Substrate
 - 2.3.1 Glass Sol-Gel Nanocoating
 - 2.3.2 Metal Sol-Gel Nanocoating
 - 2.3.3 Ceramic Sol-Gel Nanocoating
 - 2.3.4 Sol-Gel Nanocoating Sales by Substrate
 - 2.3.4.1 Global Sol-Gel Nanocoating Sales Market Share by Substrate (2021-2026)
 - 2.3.4.2 Global Sol-Gel Nanocoating Revenue and Market Share by Substrate (2021-2026)
 - 2.3.4.3 Global Sol-Gel Nanocoating Sale Price by Substrate (2021-2026)
- 2.4 Sol-Gel Nanocoating Segment by Coating Thickness

2.4.1 Thin Coating (<100nm)

2.4.2 Medium Coating (100-500nm)

2.4.3 Thick Coating (>500nm)

2.4.4 Sol-Gel Nanocoating Sales by Coating Thickness

2.4.4.1 Global Sol-Gel Nanocoating Sales Market Share by Coating Thickness (2021-2026)

2.4.4.2 Global Sol-Gel Nanocoating Revenue and Market Share by Coating Thickness (2021-2026)

2.4.4.3 Global Sol-Gel Nanocoating Sale Price by Coating Thickness (2021-2026)

2.5 Sol-Gel Nanocoating Segment by Application

2.5.1 Surface Protection

2.5.2 Self-Cleaning Treatment

2.5.3 Optical and Barrier Enhancement

2.5.4 Other

2.5.5 Sol-Gel Nanocoating Sales by Application

2.5.5.1 Global Sol-Gel Nanocoating Sales Market Share by Application (2021-2026)

2.5.5.2 Global Sol-Gel Nanocoating Revenue and Market Share by Application (2021-2026)

2.5.5.3 Global Sol-Gel Nanocoating Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Sol-Gel Nanocoating Breakdown Data by Company

3.1.1 Global Sol-Gel Nanocoating Annual Sales by Company (2021-2026)

3.1.2 Global Sol-Gel Nanocoating Sales Market Share by Company (2021-2026)

3.2 Global Sol-Gel Nanocoating Annual Revenue by Company (2021-2026)

3.2.1 Global Sol-Gel Nanocoating Revenue by Company (2021-2026)

3.2.2 Global Sol-Gel Nanocoating Revenue Market Share by Company (2021-2026)

3.3 Global Sol-Gel Nanocoating Sale Price by Company

3.4 Key Manufacturers Sol-Gel Nanocoating Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Sol-Gel Nanocoating Product Location Distribution

3.4.2 Players Sol-Gel Nanocoating Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR SOL-GEL NANOCOATING BY GEOGRAPHIC REGION

4.1 World Historic Sol-Gel Nanocoating Market Size by Geographic Region (2021-2026)

4.1.1 Global Sol-Gel Nanocoating Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Sol-Gel Nanocoating Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Sol-Gel Nanocoating Market Size by Country/Region (2021-2026)

4.2.1 Global Sol-Gel Nanocoating Annual Sales by Country/Region (2021-2026)

4.2.2 Global Sol-Gel Nanocoating Annual Revenue by Country/Region (2021-2026)

4.3 Americas Sol-Gel Nanocoating Sales Growth

4.4 APAC Sol-Gel Nanocoating Sales Growth

4.5 Europe Sol-Gel Nanocoating Sales Growth

4.6 Middle East & Africa Sol-Gel Nanocoating Sales Growth

5 AMERICAS

5.1 Americas Sol-Gel Nanocoating Sales by Country

5.1.1 Americas Sol-Gel Nanocoating Sales by Country (2021-2026)

5.1.2 Americas Sol-Gel Nanocoating Revenue by Country (2021-2026)

5.2 Americas Sol-Gel Nanocoating Sales by Type (2021-2026)

5.3 Americas Sol-Gel Nanocoating Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Sol-Gel Nanocoating Sales by Region

6.1.1 APAC Sol-Gel Nanocoating Sales by Region (2021-2026)

6.1.2 APAC Sol-Gel Nanocoating Revenue by Region (2021-2026)

6.2 APAC Sol-Gel Nanocoating Sales by Type (2021-2026)

6.3 APAC Sol-Gel Nanocoating Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Sol-Gel Nanocoating by Country

7.1.1 Europe Sol-Gel Nanocoating Sales by Country (2021-2026)

7.1.2 Europe Sol-Gel Nanocoating Revenue by Country (2021-2026)

7.2 Europe Sol-Gel Nanocoating Sales by Type (2021-2026)

7.3 Europe Sol-Gel Nanocoating Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Sol-Gel Nanocoating by Country

8.1.1 Middle East & Africa Sol-Gel Nanocoating Sales by Country (2021-2026)

8.1.2 Middle East & Africa Sol-Gel Nanocoating Revenue by Country (2021-2026)

8.2 Middle East & Africa Sol-Gel Nanocoating Sales by Type (2021-2026)

8.3 Middle East & Africa Sol-Gel Nanocoating Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Sol-Gel Nanocoating

10.3 Manufacturing Process Analysis of Sol-Gel Nanocoating

10.4 Industry Chain Structure of Sol-Gel Nanocoating

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Sol-Gel Nanocoating Distributors

11.3 Sol-Gel Nanocoating Customer

12 WORLD FORECAST REVIEW FOR SOL-GEL NANOCOATING BY GEOGRAPHIC REGION

12.1 Global Sol-Gel Nanocoating Market Size Forecast by Region

12.1.1 Global Sol-Gel Nanocoating Forecast by Region (2027-2032)

12.1.2 Global Sol-Gel Nanocoating Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global Sol-Gel Nanocoating Forecast by Type (2027-2032)

12.7 Global Sol-Gel Nanocoating Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 SOCOMORE

13.1.1 SOCOMORE Company Information

13.1.2 SOCOMORE Sol-Gel Nanocoating Product Portfolios and Specifications

13.1.3 SOCOMORE Sol-Gel Nanocoating Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 SOCOMORE Main Business Overview

13.1.5 SOCOMORE Latest Developments

13.2 Henkel

13.2.1 Henkel Company Information

13.2.2 Henkel Sol-Gel Nanocoating Product Portfolios and Specifications

13.2.3 Henkel Sol-Gel Nanocoating Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Henkel Main Business Overview

- 13.2.5 Henkel Latest Developments
- 13.3 Chemetall
 - 13.3.1 Chemetall Company Information
 - 13.3.2 Chemetall Sol-Gel Nanocoating Product Portfolios and Specifications
 - 13.3.3 Chemetall Sol-Gel Nanocoating Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.3.4 Chemetall Main Business Overview
 - 13.3.5 Chemetall Latest Developments
- 13.4 SurTec International
 - 13.4.1 SurTec International Company Information
 - 13.4.2 SurTec International Sol-Gel Nanocoating Product Portfolios and Specifications
 - 13.4.3 SurTec International Sol-Gel Nanocoating Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.4.4 SurTec International Main Business Overview
 - 13.4.5 SurTec International Latest Developments
- 13.5 NEI Corporation
 - 13.5.1 NEI Corporation Company Information
 - 13.5.2 NEI Corporation Sol-Gel Nanocoating Product Portfolios and Specifications
 - 13.5.3 NEI Corporation Sol-Gel Nanocoating Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.5.4 NEI Corporation Main Business Overview
 - 13.5.5 NEI Corporation Latest Developments
- 13.6 Nanovere Technologies
 - 13.6.1 Nanovere Technologies Company Information
 - 13.6.2 Nanovere Technologies Sol-Gel Nanocoating Product Portfolios and Specifications
 - 13.6.3 Nanovere Technologies Sol-Gel Nanocoating Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.6.4 Nanovere Technologies Main Business Overview
 - 13.6.5 Nanovere Technologies Latest Developments
- 13.7 Nano-Care Deutschland
 - 13.7.1 Nano-Care Deutschland Company Information
 - 13.7.2 Nano-Care Deutschland Sol-Gel Nanocoating Product Portfolios and Specifications
 - 13.7.3 Nano-Care Deutschland Sol-Gel Nanocoating Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.7.4 Nano-Care Deutschland Main Business Overview
 - 13.7.5 Nano-Care Deutschland Latest Developments
- 13.8 Nanopool

- 13.8.1 Nanopool Company Information
- 13.8.2 Nanopool Sol-Gel Nanocoating Product Portfolios and Specifications
- 13.8.3 Nanopool Sol-Gel Nanocoating Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.8.4 Nanopool Main Business Overview
- 13.8.5 Nanopool Latest Developments
- 13.9 PPG Industries
 - 13.9.1 PPG Industries Company Information
 - 13.9.2 PPG Industries Sol-Gel Nanocoating Product Portfolios and Specifications
 - 13.9.3 PPG Industries Sol-Gel Nanocoating Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.9.4 PPG Industries Main Business Overview
 - 13.9.5 PPG Industries Latest Developments
- 13.10 AkzoNobel
 - 13.10.1 AkzoNobel Company Information
 - 13.10.2 AkzoNobel Sol-Gel Nanocoating Product Portfolios and Specifications
 - 13.10.3 AkzoNobel Sol-Gel Nanocoating Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.10.4 AkzoNobel Main Business Overview
 - 13.10.5 AkzoNobel Latest Developments
- 13.11 Nanophase Technologies
 - 13.11.1 Nanophase Technologies Company Information
 - 13.11.2 Nanophase Technologies Sol-Gel Nanocoating Product Portfolios and Specifications
 - 13.11.3 Nanophase Technologies Sol-Gel Nanocoating Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.11.4 Nanophase Technologies Main Business Overview
 - 13.11.5 Nanophase Technologies Latest Developments
- 13.12 Shanghai Huzheng Nanotechnology
 - 13.12.1 Shanghai Huzheng Nanotechnology Company Information
 - 13.12.2 Shanghai Huzheng Nanotechnology Sol-Gel Nanocoating Product Portfolios and Specifications
 - 13.12.3 Shanghai Huzheng Nanotechnology Sol-Gel Nanocoating Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.12.4 Shanghai Huzheng Nanotechnology Main Business Overview
 - 13.12.5 Shanghai Huzheng Nanotechnology Latest Developments
- 13.13 Suzhou Ginet New Material Technology
 - 13.13.1 Suzhou Ginet New Material Technology Company Information
 - 13.13.2 Suzhou Ginet New Material Technology Sol-Gel Nanocoating Product

Portfolios and Specifications

13.13.3 Suzhou Ginet New Material Technology Sol-Gel Nanocoating Sales, Revenue, Price and Gross Margin (2021-2026)

13.13.4 Suzhou Ginet New Material Technology Main Business Overview

13.13.5 Suzhou Ginet New Material Technology Latest Developments

13.14 Hangzhou Wanjing New Material

13.14.1 Hangzhou Wanjing New Material Company Information

13.14.2 Hangzhou Wanjing New Material Sol-Gel Nanocoating Product Portfolios and Specifications

13.14.3 Hangzhou Wanjing New Material Sol-Gel Nanocoating Sales, Revenue, Price and Gross Margin (2021-2026)

13.14.4 Hangzhou Wanjing New Material Main Business Overview

13.14.5 Hangzhou Wanjing New Material Latest Developments

13.15 Guangzhou GBS High-Tech & Industry

13.15.1 Guangzhou GBS High-Tech & Industry Company Information

13.15.2 Guangzhou GBS High-Tech & Industry Sol-Gel Nanocoating Product

Portfolios and Specifications

13.15.3 Guangzhou GBS High-Tech & Industry Sol-Gel Nanocoating Sales, Revenue, Price and Gross Margin (2021-2026)

13.15.4 Guangzhou GBS High-Tech & Industry Main Business Overview

13.15.5 Guangzhou GBS High-Tech & Industry Latest Developments

13.16 Shenzhen Nanotech Port

13.16.1 Shenzhen Nanotech Port Company Information

13.16.2 Shenzhen Nanotech Port Sol-Gel Nanocoating Product Portfolios and Specifications

13.16.3 Shenzhen Nanotech Port Sol-Gel Nanocoating Sales, Revenue, Price and Gross Margin (2021-2026)

13.16.4 Shenzhen Nanotech Port Main Business Overview

13.16.5 Shenzhen Nanotech Port Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Sol-Gel Nanocoating Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Sol-Gel Nanocoating Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Anti-Corrosion Sol-Gel Nanocoating

Table 4. Major Players of Anti-Fouling Sol-Gel Nanocoating

Table 5. Major Players of Scratch-Resistant Sol-Gel Nanocoating

Table 6. Global Sol-Gel Nanocoating Sales by Type (2021-2026) & (Kilotons)

Table 7. Global Sol-Gel Nanocoating Sales Market Share by Type (2021-2026)

Table 8. Global Sol-Gel Nanocoating Revenue by Type (2021-2026) & (\$ million)

Table 9. Global Sol-Gel Nanocoating Revenue Market Share by Type (2021-2026)

Table 10. Global Sol-Gel Nanocoating Sale Price by Type (2021-2026) & (USD/MT)

Table 11. Major Players of Glass Sol-Gel Nanocoating

Table 12. Major Players of Metal Sol-Gel Nanocoating

Table 13. Major Players of Ceramic Sol-Gel Nanocoating

Table 14. Global Sol-Gel Nanocoating Sales by Substrate (2021-2026) & (Kilotons)

Table 15. Global Sol-Gel Nanocoating Sales Market Share by Substrate (2021-2026)

Table 16. Global Sol-Gel Nanocoating Revenue by Substrate (2021-2026) & (\$ million)

Table 17. Global Sol-Gel Nanocoating Revenue Market Share by Substrate (2021-2026)

Table 18. Global Sol-Gel Nanocoating Sale Price by Substrate (2021-2026) & (USD/MT)

Table 19. Major Players of Thin Coating (?100nm)

Table 20. Major Players of Medium Coating (100?500nm)

Table 21. Major Players of Thick Coating (?500nm)

Table 22. Global Sol-Gel Nanocoating Sales by Coating Thickness (2021-2026) & (Kilotons)

Table 23. Global Sol-Gel Nanocoating Sales Market Share by Coating Thickness (2021-2026)

Table 24. Global Sol-Gel Nanocoating Revenue by Coating Thickness (2021-2026) & (\$ million)

Table 25. Global Sol-Gel Nanocoating Revenue Market Share by Coating Thickness (2021-2026)

Table 26. Global Sol-Gel Nanocoating Sale Price by Coating Thickness (2021-2026) & (USD/MT)

Table 27. Global Sol-Gel Nanocoating Sale by Application (2021-2026) & (Kilotons)
Table 28. Global Sol-Gel Nanocoating Sale Market Share by Application (2021-2026)
Table 29. Global Sol-Gel Nanocoating Revenue by Application (2021-2026) & (\$ million)
Table 30. Global Sol-Gel Nanocoating Revenue Market Share by Application (2021-2026)
Table 31. Global Sol-Gel Nanocoating Sale Price by Application (2021-2026) & (USD/MT)
Table 32. Global Sol-Gel Nanocoating Sales by Company (2021-2026) & (Kilotons)
Table 33. Global Sol-Gel Nanocoating Sales Market Share by Company (2021-2026)
Table 34. Global Sol-Gel Nanocoating Revenue by Company (2021-2026) & (\$ millions)
Table 35. Global Sol-Gel Nanocoating Revenue Market Share by Company (2021-2026)
Table 36. Global Sol-Gel Nanocoating Sale Price by Company (2021-2026) & (USD/MT)
Table 37. Key Manufacturers Sol-Gel Nanocoating Producing Area Distribution and Sales Area
Table 38. Players Sol-Gel Nanocoating Products Offered
Table 39. Sol-Gel Nanocoating Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
Table 40. New Products and Potential Entrants
Table 41. Market M&A Activity & Strategy
Table 42. Global Sol-Gel Nanocoating Sales by Geographic Region (2021-2026) & (Kilotons)
Table 43. Global Sol-Gel Nanocoating Sales Market Share Geographic Region (2021-2026)
Table 44. Global Sol-Gel Nanocoating Revenue by Geographic Region (2021-2026) & (\$ millions)
Table 45. Global Sol-Gel Nanocoating Revenue Market Share by Geographic Region (2021-2026)
Table 46. Global Sol-Gel Nanocoating Sales by Country/Region (2021-2026) & (Kilotons)
Table 47. Global Sol-Gel Nanocoating Sales Market Share by Country/Region (2021-2026)
Table 48. Global Sol-Gel Nanocoating Revenue by Country/Region (2021-2026) & (\$ millions)
Table 49. Global Sol-Gel Nanocoating Revenue Market Share by Country/Region (2021-2026)
Table 50. Americas Sol-Gel Nanocoating Sales by Country (2021-2026) & (Kilotons)
Table 51. Americas Sol-Gel Nanocoating Sales Market Share by Country (2021-2026)

Table 52. Americas Sol-Gel Nanocoating Revenue by Country (2021-2026) & (\$ millions)
Table 53. Americas Sol-Gel Nanocoating Sales by Type (2021-2026) & (Kilotons)
Table 54. Americas Sol-Gel Nanocoating Sales by Application (2021-2026) & (Kilotons)
Table 55. APAC Sol-Gel Nanocoating Sales by Region (2021-2026) & (Kilotons)
Table 56. APAC Sol-Gel Nanocoating Sales Market Share by Region (2021-2026)
Table 57. APAC Sol-Gel Nanocoating Revenue by Region (2021-2026) & (\$ millions)
Table 58. APAC Sol-Gel Nanocoating Sales by Type (2021-2026) & (Kilotons)
Table 59. APAC Sol-Gel Nanocoating Sales by Application (2021-2026) & (Kilotons)
Table 60. Europe Sol-Gel Nanocoating Sales by Country (2021-2026) & (Kilotons)
Table 61. Europe Sol-Gel Nanocoating Revenue by Country (2021-2026) & (\$ millions)
Table 62. Europe Sol-Gel Nanocoating Sales by Type (2021-2026) & (Kilotons)
Table 63. Europe Sol-Gel Nanocoating Sales by Application (2021-2026) & (Kilotons)
Table 64. Middle East & Africa Sol-Gel Nanocoating Sales by Country (2021-2026) & (Kilotons)
Table 65. Middle East & Africa Sol-Gel Nanocoating Revenue Market Share by Country (2021-2026)
Table 66. Middle East & Africa Sol-Gel Nanocoating Sales by Type (2021-2026) & (Kilotons)
Table 67. Middle East & Africa Sol-Gel Nanocoating Sales by Application (2021-2026) & (Kilotons)
Table 68. Key Market Drivers & Growth Opportunities of Sol-Gel Nanocoating
Table 69. Key Market Challenges & Risks of Sol-Gel Nanocoating
Table 70. Key Industry Trends of Sol-Gel Nanocoating
Table 71. Sol-Gel Nanocoating Raw Material
Table 72. Key Suppliers of Raw Materials
Table 73. Sol-Gel Nanocoating Distributors List
Table 74. Sol-Gel Nanocoating Customer List
Table 75. Global Sol-Gel Nanocoating Sales Forecast by Region (2027-2032) & (Kilotons)
Table 76. Global Sol-Gel Nanocoating Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 77. Americas Sol-Gel Nanocoating Sales Forecast by Country (2027-2032) & (Kilotons)
Table 78. Americas Sol-Gel Nanocoating Annual Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 79. APAC Sol-Gel Nanocoating Sales Forecast by Region (2027-2032) & (Kilotons)
Table 80. APAC Sol-Gel Nanocoating Annual Revenue Forecast by Region

(2027-2032) & (\$ millions)

Table 81. Europe Sol-Gel Nanocoating Sales Forecast by Country (2027-2032) & (Kilotons)

Table 82. Europe Sol-Gel Nanocoating Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 83. Middle East & Africa Sol-Gel Nanocoating Sales Forecast by Country (2027-2032) & (Kilotons)

Table 84. Middle East & Africa Sol-Gel Nanocoating Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 85. Global Sol-Gel Nanocoating Sales Forecast by Type (2027-2032) & (Kilotons)

Table 86. Global Sol-Gel Nanocoating Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 87. Global Sol-Gel Nanocoating Sales Forecast by Application (2027-2032) & (Kilotons)

Table 88. Global Sol-Gel Nanocoating Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 89. SOCOMORE Basic Information, Sol-Gel Nanocoating Manufacturing Base, Sales Area and Its Competitors

Table 90. SOCOMORE Sol-Gel Nanocoating Product Portfolios and Specifications

Table 91. SOCOMORE Sol-Gel Nanocoating Sales (Kilotons), Revenue (\$ Million), Price (USD/MT) and Gross Margin (2021-2026)

Table 92. SOCOMORE Main Business

Table 93. SOCOMORE Latest Developments

Table 94. Henkel Basic Information, Sol-Gel Nanocoating Manufacturing Base, Sales Area and Its Competitors

Table 95. Henkel Sol-Gel Nanocoating Product Portfolios and Specifications

Table 96. Henkel Sol-Gel Nanocoating Sales (Kilotons), Revenue (\$ Million), Price (USD/MT) and Gross Margin (2021-2026)

Table 97. Henkel Main Business

Table 98. Henkel Latest Developments

Table 99. Chemetall Basic Information, Sol-Gel Nanocoating Manufacturing Base, Sales Area and Its Competitors

Table 100. Chemetall Sol-Gel Nanocoating Product Portfolios and Specifications

Table 101. Chemetall Sol-Gel Nanocoating Sales (Kilotons), Revenue (\$ Million), Price (USD/MT) and Gross Margin (2021-2026)

Table 102. Chemetall Main Business

Table 103. Chemetall Latest Developments

Table 104. SurTec International Basic Information, Sol-Gel Nanocoating Manufacturing Base, Sales Area and Its Competitors

Table 105. SurTec International Sol-Gel Nanocoating Product Portfolios and Specifications
Table 106. SurTec International Sol-Gel Nanocoating Sales (Kilotons), Revenue (\$ Million), Price (USD/MT) and Gross Margin (2021-2026)
Table 107. SurTec International Main Business
Table 108. SurTec International Latest Developments
Table 109. NEI Corporation Basic Information, Sol-Gel Nanocoating Manufacturing Base, Sales Area and Its Competitors
Table 110. NEI Corporation Sol-Gel Nanocoating Product Portfolios and Specifications
Table 111. NEI Corporation Sol-Gel Nanocoating Sales (Kilotons), Revenue (\$ Million), Price (USD/MT) and Gross Margin (2021-2026)
Table 112. NEI Corporation Main Business
Table 113. NEI Corporation Latest Developments
Table 114. Nanovere Technologies Basic Information, Sol-Gel Nanocoating Manufacturing Base, Sales Area and Its Competitors
Table 115. Nanovere Technologies Sol-Gel Nanocoating Product Portfolios and Specifications
Table 116. Nanovere Technologies Sol-Gel Nanocoating Sales (Kilotons), Revenue (\$ Million), Price (USD/MT) and Gross Margin (2021-2026)
Table 117. Nanovere Technologies Main Business
Table 118. Nanovere Technologies Latest Developments
Table 119. Nano-Care Deutschland Basic Information, Sol-Gel Nanocoating Manufacturing Base, Sales Area and Its Competitors
Table 120. Nano-Care Deutschland Sol-Gel Nanocoating Product Portfolios and Specifications
Table 121. Nano-Care Deutschland Sol-Gel Nanocoating Sales (Kilotons), Revenue (\$ Million), Price (USD/MT) and Gross Margin (2021-2026)
Table 122. Nano-Care Deutschland Main Business
Table 123. Nano-Care Deutschland Latest Developments
Table 124. Nanopool Basic Information, Sol-Gel Nanocoating Manufacturing Base, Sales Area and Its Competitors
Table 125. Nanopool Sol-Gel Nanocoating Product Portfolios and Specifications
Table 126. Nanopool Sol-Gel Nanocoating Sales (Kilotons), Revenue (\$ Million), Price (USD/MT) and Gross Margin (2021-2026)
Table 127. Nanopool Main Business
Table 128. Nanopool Latest Developments
Table 129. PPG Industries Basic Information, Sol-Gel Nanocoating Manufacturing Base, Sales Area and Its Competitors
Table 130. PPG Industries Sol-Gel Nanocoating Product Portfolios and Specifications

Table 131. PPG Industries Sol-Gel Nanocoating Sales (Kilotons), Revenue (\$ Million), Price (USD/MT) and Gross Margin (2021-2026)

Table 132. PPG Industries Main Business

Table 133. PPG Industries Latest Developments

Table 134. AkzoNobel Basic Information, Sol-Gel Nanocoating Manufacturing Base, Sales Area and Its Competitors

Table 135. AkzoNobel Sol-Gel Nanocoating Product Portfolios and Specifications

Table 136. AkzoNobel Sol-Gel Nanocoating Sales (Kilotons), Revenue (\$ Million), Price (USD/MT) and Gross Margin (2021-2026)

Table 137. AkzoNobel Main Business

Table 138. AkzoNobel Latest Developments

Table 139. Nanophase Technologies Basic Information, Sol-Gel Nanocoating Manufacturing Base, Sales Area and Its Competitors

Table 140. Nanophase Technologies Sol-Gel Nanocoating Product Portfolios and Specifications

Table 141. Nanophase Technologies Sol-Gel Nanocoating Sales (Kilotons), Revenue (\$ Million), Price (USD/MT) and Gross Margin (2021-2026)

Table 142. Nanophase Technologies Main Business

Table 143. Nanophase Technologies Latest Developments

Table 144. Shanghai Huzheng Nanotechnology Basic Information, Sol-Gel Nanocoating Manufacturing Base, Sales Area and Its Competitors

Table 145. Shanghai Huzheng Nanotechnology Sol-Gel Nanocoating Product Portfolios and Specifications

Table 146. Shanghai Huzheng Nanotechnology Sol-Gel Nanocoating Sales (Kilotons), Revenue (\$ Million), Price (USD/MT) and Gross Margin (2021-2026)

Table 147. Shanghai Huzheng Nanotechnology Main Business

Table 148. Shanghai Huzheng Nanotechnology Latest Developments

Table 149. Suzhou Ginet New Material Technology Basic Information, Sol-Gel Nanocoating Manufacturing Base, Sales Area and Its Competitors

Table 150. Suzhou Ginet New Material Technology Sol-Gel Nanocoating Product Portfolios and Specifications

Table 151. Suzhou Ginet New Material Technology Sol-Gel Nanocoating Sales (Kilotons), Revenue (\$ Million), Price (USD/MT) and Gross Margin (2021-2026)

Table 152. Suzhou Ginet New Material Technology Main Business

Table 153. Suzhou Ginet New Material Technology Latest Developments

Table 154. Hangzhou Wanjing New Material Basic Information, Sol-Gel Nanocoating Manufacturing Base, Sales Area and Its Competitors

Table 155. Hangzhou Wanjing New Material Sol-Gel Nanocoating Product Portfolios and Specifications

Table 156. Hangzhou Wanjing New Material Sol-Gel Nanocoating Sales (Kilotons), Revenue (\$ Million), Price (USD/MT) and Gross Margin (2021-2026)

Table 157. Hangzhou Wanjing New Material Main Business

Table 158. Hangzhou Wanjing New Material Latest Developments

Table 159. Guangzhou GBS High-Tech & Industry Basic Information, Sol-Gel Nanocoating Manufacturing Base, Sales Area and Its Competitors

Table 160. Guangzhou GBS High-Tech & Industry Sol-Gel Nanocoating Product Portfolios and Specifications

Table 161. Guangzhou GBS High-Tech & Industry Sol-Gel Nanocoating Sales (Kilotons), Revenue (\$ Million), Price (USD/MT) and Gross Margin (2021-2026)

Table 162. Guangzhou GBS High-Tech & Industry Main Business

Table 163. Guangzhou GBS High-Tech & Industry Latest Developments

Table 164. Shenzhen Nanotech Port Basic Information, Sol-Gel Nanocoating Manufacturing Base, Sales Area and Its Competitors

Table 165. Shenzhen Nanotech Port Sol-Gel Nanocoating Product Portfolios and Specifications

Table 166. Shenzhen Nanotech Port Sol-Gel Nanocoating Sales (Kilotons), Revenue (\$ Million), Price (USD/MT) and Gross Margin (2021-2026)

Table 167. Shenzhen Nanotech Port Main Business

Table 168. Shenzhen Nanotech Port Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Sol-Gel Nanocoating
- Figure 2. Sol-Gel Nanocoating Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Sol-Gel Nanocoating Sales Growth Rate 2021-2032 (Kilotons)
- Figure 7. Global Sol-Gel Nanocoating Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Sol-Gel Nanocoating Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Sol-Gel Nanocoating Sales Market Share by Country/Region (2025)
- Figure 10. Sol-Gel Nanocoating Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Anti-Corrosion Sol-Gel Nanocoating
- Figure 12. Product Picture of Anti-Fouling Sol-Gel Nanocoating
- Figure 13. Product Picture of Scratch-Resistant Sol-Gel Nanocoating
- Figure 14. Global Sol-Gel Nanocoating Sales Market Share by Type in 2026
- Figure 15. Global Sol-Gel Nanocoating Revenue Market Share by Type (2021-2026)
- Figure 16. Product Picture of Glass Sol-Gel Nanocoating
- Figure 17. Product Picture of Metal Sol-Gel Nanocoating
- Figure 18. Product Picture of Ceramic Sol-Gel Nanocoating
- Figure 19. Global Sol-Gel Nanocoating Sales Market Share by Substrate in 2026
- Figure 20. Global Sol-Gel Nanocoating Revenue Market Share by Substrate (2021-2026)
- Figure 21. Product Picture of Thin Coating (?100nm)
- Figure 22. Product Picture of Medium Coating (100?500nm)
- Figure 23. Product Picture of Thick Coating (?500nm)
- Figure 24. Global Sol-Gel Nanocoating Sales Market Share by Coating Thickness in 2026
- Figure 25. Global Sol-Gel Nanocoating Revenue Market Share by Coating Thickness (2021-2026)
- Figure 26. Sol-Gel Nanocoating Consumed in Surface Protection
- Figure 27. Global Sol-Gel Nanocoating Market: Surface Protection (2021-2026) & (Kilotons)
- Figure 28. Sol-Gel Nanocoating Consumed in Self-Cleaning Treatment
- Figure 29. Global Sol-Gel Nanocoating Market: Self-Cleaning Treatment (2021-2026) &

(Kilotons)

Figure 30. Sol-Gel Nanocoating Consumed in Optical and Barrier Enhancement

Figure 31. Global Sol-Gel Nanocoating Market: Optical and Barrier Enhancement (2021-2026) & (Kilotons)

Figure 32. Sol-Gel Nanocoating Consumed in Other

Figure 33. Global Sol-Gel Nanocoating Market: Other (2021-2026) & (Kilotons)

Figure 34. Global Sol-Gel Nanocoating Sales Market Share by Application (2025)

Figure 35. Global Sol-Gel Nanocoating Revenue Market Share by Application in 2025

Figure 36. Sol-Gel Nanocoating Sales by Company in 2025 (Kilotons)

Figure 37. Global Sol-Gel Nanocoating Sales Market Share by Company in 2025

Figure 38. Sol-Gel Nanocoating Revenue by Company in 2025 (\$ millions)

Figure 39. Global Sol-Gel Nanocoating Revenue Market Share by Company in 2025

Figure 40. Global Sol-Gel Nanocoating Sales Market Share by Geographic Region (2021-2026)

Figure 41. Global Sol-Gel Nanocoating Revenue Market Share by Geographic Region in 2025

Figure 42. Americas Sol-Gel Nanocoating Sales 2021-2026 (Kilotons)

Figure 43. Americas Sol-Gel Nanocoating Revenue 2021-2026 (\$ millions)

Figure 44. APAC Sol-Gel Nanocoating Sales 2021-2026 (Kilotons)

Figure 45. APAC Sol-Gel Nanocoating Revenue 2021-2026 (\$ millions)

Figure 46. Europe Sol-Gel Nanocoating Sales 2021-2026 (Kilotons)

Figure 47. Europe Sol-Gel Nanocoating Revenue 2021-2026 (\$ millions)

Figure 48. Middle East & Africa Sol-Gel Nanocoating Sales 2021-2026 (Kilotons)

Figure 49. Middle East & Africa Sol-Gel Nanocoating Revenue 2021-2026 (\$ millions)

Figure 50. Americas Sol-Gel Nanocoating Sales Market Share by Country in 2025

Figure 51. Americas Sol-Gel Nanocoating Revenue Market Share by Country (2021-2026)

Figure 52. Americas Sol-Gel Nanocoating Sales Market Share by Type (2021-2026)

Figure 53. Americas Sol-Gel Nanocoating Sales Market Share by Application (2021-2026)

Figure 54. United States Sol-Gel Nanocoating Revenue Growth 2021-2026 (\$ millions)

Figure 55. Canada Sol-Gel Nanocoating Revenue Growth 2021-2026 (\$ millions)

Figure 56. Mexico Sol-Gel Nanocoating Revenue Growth 2021-2026 (\$ millions)

Figure 57. Brazil Sol-Gel Nanocoating Revenue Growth 2021-2026 (\$ millions)

Figure 58. APAC Sol-Gel Nanocoating Sales Market Share by Region in 2025

Figure 59. APAC Sol-Gel Nanocoating Revenue Market Share by Region (2021-2026)

Figure 60. APAC Sol-Gel Nanocoating Sales Market Share by Type (2021-2026)

Figure 61. APAC Sol-Gel Nanocoating Sales Market Share by Application (2021-2026)

Figure 62. China Sol-Gel Nanocoating Revenue Growth 2021-2026 (\$ millions)

- Figure 63. Japan Sol-Gel Nanocoating Revenue Growth 2021-2026 (\$ millions)
- Figure 64. South Korea Sol-Gel Nanocoating Revenue Growth 2021-2026 (\$ millions)
- Figure 65. Southeast Asia Sol-Gel Nanocoating Revenue Growth 2021-2026 (\$ millions)
- Figure 66. India Sol-Gel Nanocoating Revenue Growth 2021-2026 (\$ millions)
- Figure 67. Australia Sol-Gel Nanocoating Revenue Growth 2021-2026 (\$ millions)
- Figure 68. China Taiwan Sol-Gel Nanocoating Revenue Growth 2021-2026 (\$ millions)
- Figure 69. Europe Sol-Gel Nanocoating Sales Market Share by Country in 2025
- Figure 70. Europe Sol-Gel Nanocoating Revenue Market Share by Country (2021-2026)
- Figure 71. Europe Sol-Gel Nanocoating Sales Market Share by Type (2021-2026)
- Figure 72. Europe Sol-Gel Nanocoating Sales Market Share by Application (2021-2026)
- Figure 73. Germany Sol-Gel Nanocoating Revenue Growth 2021-2026 (\$ millions)
- Figure 74. France Sol-Gel Nanocoating Revenue Growth 2021-2026 (\$ millions)
- Figure 75. UK Sol-Gel Nanocoating Revenue Growth 2021-2026 (\$ millions)
- Figure 76. Italy Sol-Gel Nanocoating Revenue Growth 2021-2026 (\$ millions)
- Figure 77. Russia Sol-Gel Nanocoating Revenue Growth 2021-2026 (\$ millions)
- Figure 78. Middle East & Africa Sol-Gel Nanocoating Sales Market Share by Country (2021-2026)
- Figure 79. Middle East & Africa Sol-Gel Nanocoating Sales Market Share by Type (2021-2026)
- Figure 80. Middle East & Africa Sol-Gel Nanocoating Sales Market Share by Application (2021-2026)
- Figure 81. Egypt Sol-Gel Nanocoating Revenue Growth 2021-2026 (\$ millions)
- Figure 82. South Africa Sol-Gel Nanocoating Revenue Growth 2021-2026 (\$ millions)
- Figure 83. Israel Sol-Gel Nanocoating Revenue Growth 2021-2026 (\$ millions)
- Figure 84. Turkey Sol-Gel Nanocoating Revenue Growth 2021-2026 (\$ millions)
- Figure 85. GCC Countries Sol-Gel Nanocoating Revenue Growth 2021-2026 (\$ millions)
- Figure 86. Manufacturing Cost Structure Analysis of Sol-Gel Nanocoating in 2026
- Figure 87. Manufacturing Process Analysis of Sol-Gel Nanocoating
- Figure 88. Industry Chain Structure of Sol-Gel Nanocoating
- Figure 89. Channels of Distribution
- Figure 90. Global Sol-Gel Nanocoating Sales Market Forecast by Region (2027-2032)
- Figure 91. Global Sol-Gel Nanocoating Revenue Market Share Forecast by Region (2027-2032)
- Figure 92. Global Sol-Gel Nanocoating Sales Market Share Forecast by Type (2027-2032)
- Figure 93. Global Sol-Gel Nanocoating Revenue Market Share Forecast by Type (2027-2032)
- Figure 94. Global Sol-Gel Nanocoating Sales Market Share Forecast by Application

(2027-2032)

Figure 95. Global Sol-Gel Nanocoating Revenue Market Share Forecast by Application

(2027-2032)

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