

Global Medical-grade Solid Silicone Rubber Market Growth 2026-2032

<https://marketpublishers.com/r/G4F8B9C44BCFEN.html>

Date: May 2026

Pages: 101

Price: US\$ 3,660.00 (Single User License)

ID: G4F8B9C44BCFEN

Abstracts

The global Medical-grade Solid Silicone Rubber market size is predicted to grow from US\$ 1852 million in 2025 to US\$ 2977 million in 2032; it is expected to grow at a CAGR of 7.1% from 2026 to 2032.

Medical-grade solid silicone rubber is a high-purity, platinum- or peroxide-cured elastomer designed for long-term or short-term contact with the human body, offering excellent biocompatibility, thermal stability (typically $-50\text{ }^{\circ}\text{C}$ to $>200\text{ }^{\circ}\text{C}$), chemical inertness, low extractables, and resistance to sterilization methods such as steam, EtO, and gamma irradiation; it is widely used in implants, tubing, seals, gaskets, diaphragms, and molded components for medical devices. Its supply chain begins upstream with silicon metal production from quartz, followed by conversion to chlorosilanes and polymerization into high-molecular-weight polydimethylsiloxane (PDMS); midstream compounding adds medical-approved fillers (e.g., fumed silica), curing agents, and process aids under ISO-controlled conditions to produce solid rubber (HCR) in sheets, strips, or blocks; downstream, certified converters mold or extrude parts (compression, transfer, injection molding), conduct post-curing and cleaning, and perform validation and traceability (USP Class VI, ISO 10993), before final OEM assembly, sterilization, packaging, and distribution to hospitals and device manufacturers. In 2025, global medical-grade solid silicone rubber production was about 150,000 tons against an installed capacity of roughly 185,000 tons, leaving moderate room for demand growth; average selling prices range from USD 10,500 to 16,000 per ton, reflecting high purity and regulatory requirements, while leading manufacturers typically achieve gross margins of around 36%.

United States market for Medical-grade Solid Silicone Rubber is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through

2032.

China market for Medical-grade Solid Silicone Rubber is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Medical-grade Solid Silicone Rubber is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Medical-grade Solid Silicone Rubber players cover Dow Chemical (USA), Momentive (USA), NuSil Technology (USA), Bio-Plexus (USA), Wacker Chemie (Germany), etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Medical-grade Solid Silicone Rubber 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 Medical-grade Solid Silicone Rubber.

This report presents a comprehensive overview, market shares, and growth

opportunities of Medical-grade Solid Silicone Rubber market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Soft Type (10–30 Shore A)

Medium Type (40–60 Shore A)

Hard Type (70–90 Shore A)

Segmentation by Curing Mechanism:

Platinum-cured Silicone

Peroxide-cured Silicone

Segmentation by Application:

Medical Device

Dental Implant

Others

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.

Dow Chemical (USA)

Momentive (USA)

NuSil Technology (USA)

Bio-Plexus (USA)

Wacker Chemie (Germany)

Elkem Silicones (Norway)

Shin-Etsu Chemical (Japan)

KCC Corporation (South Korea)

Betterly New Materials (China)

Chenguang Silicone (China)

Key Questions Addressed in this Report

What is the 10-year outlook for the global Medical-grade Solid Silicone Rubber market?

What factors are driving Medical-grade Solid Silicone Rubber market growth, globally and by region?

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

How do Medical-grade Solid Silicone Rubber market opportunities vary by end market size?

How does Medical-grade Solid Silicone Rubber 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 Medical-grade Solid Silicone Rubber Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for Medical-grade Solid Silicone Rubber by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for Medical-grade Solid Silicone Rubber by Country/Region, 2021, 2025 & 2032
- 2.2 Medical-grade Solid Silicone Rubber Segment by Type
 - 2.2.1 Soft Type (10–30 Shore A)
 - 2.2.2 Medium Type (40–60 Shore A)
 - 2.2.3 Hard Type (70–90 Shore A)
 - 2.2.4 Medical-grade Solid Silicone Rubber Sales by Type
 - 2.2.4.1 Global Medical-grade Solid Silicone Rubber Sales Market Share by Type (2021-2026)
 - 2.2.4.2 Global Medical-grade Solid Silicone Rubber Revenue and Market Share by Type (2021-2026)
 - 2.2.4.3 Global Medical-grade Solid Silicone Rubber Sale Price by Type (2021-2026)
- 2.3 Medical-grade Solid Silicone Rubber Segment by Curing Mechanism
 - 2.3.1 Platinum-cured Silicone
 - 2.3.2 Peroxide-cured Silicone
 - 2.3.3 Medical-grade Solid Silicone Rubber Sales by Curing Mechanism
 - 2.3.3.1 Global Medical-grade Solid Silicone Rubber Sales Market Share by Curing Mechanism (2021-2026)
 - 2.3.3.2 Global Medical-grade Solid Silicone Rubber Revenue and Market Share by Curing Mechanism (2021-2026)

- 2.3.3.3 Global Medical-grade Solid Silicone Rubber Sale Price by Curing Mechanism (2021-2026)
- 2.4 Medical-grade Solid Silicone Rubber Segment by Application
 - 2.4.1 Medical Device
 - 2.4.2 Dental Implant
 - 2.4.3 Others
 - 2.4.4 Medical-grade Solid Silicone Rubber Sales by Application
 - 2.4.4.1 Global Medical-grade Solid Silicone Rubber Sale Market Share by Application (2021-2026)
 - 2.4.4.2 Global Medical-grade Solid Silicone Rubber Revenue and Market Share by Application (2021-2026)
 - 2.4.4.3 Global Medical-grade Solid Silicone Rubber Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

- 3.1 Global Medical-grade Solid Silicone Rubber Breakdown Data by Company
 - 3.1.1 Global Medical-grade Solid Silicone Rubber Annual Sales by Company (2021-2026)
 - 3.1.2 Global Medical-grade Solid Silicone Rubber Sales Market Share by Company (2021-2026)
- 3.2 Global Medical-grade Solid Silicone Rubber Annual Revenue by Company (2021-2026)
 - 3.2.1 Global Medical-grade Solid Silicone Rubber Revenue by Company (2021-2026)
 - 3.2.2 Global Medical-grade Solid Silicone Rubber Revenue Market Share by Company (2021-2026)
- 3.3 Global Medical-grade Solid Silicone Rubber Sale Price by Company
- 3.4 Key Manufacturers Medical-grade Solid Silicone Rubber Producing Area Distribution, Sales Area, Product Type
 - 3.4.1 Key Manufacturers Medical-grade Solid Silicone Rubber Product Location Distribution
 - 3.4.2 Players Medical-grade Solid Silicone Rubber 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 MEDICAL-GRADE SOLID SILICONE RUBBER

BY GEOGRAPHIC REGION

4.1 World Historic Medical-grade Solid Silicone Rubber Market Size by Geographic Region (2021-2026)

4.1.1 Global Medical-grade Solid Silicone Rubber Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Medical-grade Solid Silicone Rubber Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Medical-grade Solid Silicone Rubber Market Size by Country/Region (2021-2026)

4.2.1 Global Medical-grade Solid Silicone Rubber Annual Sales by Country/Region (2021-2026)

4.2.2 Global Medical-grade Solid Silicone Rubber Annual Revenue by Country/Region (2021-2026)

4.3 Americas Medical-grade Solid Silicone Rubber Sales Growth

4.4 APAC Medical-grade Solid Silicone Rubber Sales Growth

4.5 Europe Medical-grade Solid Silicone Rubber Sales Growth

4.6 Middle East & Africa Medical-grade Solid Silicone Rubber Sales Growth

5 AMERICAS

5.1 Americas Medical-grade Solid Silicone Rubber Sales by Country

5.1.1 Americas Medical-grade Solid Silicone Rubber Sales by Country (2021-2026)

5.1.2 Americas Medical-grade Solid Silicone Rubber Revenue by Country (2021-2026)

5.2 Americas Medical-grade Solid Silicone Rubber Sales by Type (2021-2026)

5.3 Americas Medical-grade Solid Silicone Rubber Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Medical-grade Solid Silicone Rubber Sales by Region

6.1.1 APAC Medical-grade Solid Silicone Rubber Sales by Region (2021-2026)

6.1.2 APAC Medical-grade Solid Silicone Rubber Revenue by Region (2021-2026)

6.2 APAC Medical-grade Solid Silicone Rubber Sales by Type (2021-2026)

6.3 APAC Medical-grade Solid Silicone Rubber 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 Medical-grade Solid Silicone Rubber by Country
 - 7.1.1 Europe Medical-grade Solid Silicone Rubber Sales by Country (2021-2026)
 - 7.1.2 Europe Medical-grade Solid Silicone Rubber Revenue by Country (2021-2026)
- 7.2 Europe Medical-grade Solid Silicone Rubber Sales by Type (2021-2026)
- 7.3 Europe Medical-grade Solid Silicone Rubber 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 Medical-grade Solid Silicone Rubber by Country
 - 8.1.1 Middle East & Africa Medical-grade Solid Silicone Rubber Sales by Country (2021-2026)
 - 8.1.2 Middle East & Africa Medical-grade Solid Silicone Rubber Revenue by Country (2021-2026)
- 8.2 Middle East & Africa Medical-grade Solid Silicone Rubber Sales by Type (2021-2026)
- 8.3 Middle East & Africa Medical-grade Solid Silicone Rubber 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 Medical-grade Solid Silicone Rubber
- 10.3 Manufacturing Process Analysis of Medical-grade Solid Silicone Rubber
- 10.4 Industry Chain Structure of Medical-grade Solid Silicone Rubber

11 MARKETING, DISTRIBUTORS AND CUSTOMER

- 11.1 Sales Channel
 - 11.1.1 Direct Channels
 - 11.1.2 Indirect Channels
- 11.2 Medical-grade Solid Silicone Rubber Distributors
- 11.3 Medical-grade Solid Silicone Rubber Customer

12 WORLD FORECAST REVIEW FOR MEDICAL-GRADE SOLID SILICONE RUBBER BY GEOGRAPHIC REGION

- 12.1 Global Medical-grade Solid Silicone Rubber Market Size Forecast by Region
 - 12.1.1 Global Medical-grade Solid Silicone Rubber Forecast by Region (2027-2032)
 - 12.1.2 Global Medical-grade Solid Silicone Rubber 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 Medical-grade Solid Silicone Rubber Forecast by Type (2027-2032)
- 12.7 Global Medical-grade Solid Silicone Rubber Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

- 13.1 Dow Chemical (USA)
 - 13.1.1 Dow Chemical (USA) Company Information
 - 13.1.2 Dow Chemical (USA) Medical-grade Solid Silicone Rubber Product Portfolios and Specifications

13.1.3 Dow Chemical (USA) Medical-grade Solid Silicone Rubber Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 Dow Chemical (USA) Main Business Overview

13.1.5 Dow Chemical (USA) Latest Developments

13.2 Momentive (USA)

13.2.1 Momentive (USA) Company Information

13.2.2 Momentive (USA) Medical-grade Solid Silicone Rubber Product Portfolios and Specifications

13.2.3 Momentive (USA) Medical-grade Solid Silicone Rubber Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Momentive (USA) Main Business Overview

13.2.5 Momentive (USA) Latest Developments

13.3 NuSil Technology (USA)

13.3.1 NuSil Technology (USA) Company Information

13.3.2 NuSil Technology (USA) Medical-grade Solid Silicone Rubber Product Portfolios and Specifications

13.3.3 NuSil Technology (USA) Medical-grade Solid Silicone Rubber Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 NuSil Technology (USA) Main Business Overview

13.3.5 NuSil Technology (USA) Latest Developments

13.4 Bio-Plexus (USA)

13.4.1 Bio-Plexus (USA) Company Information

13.4.2 Bio-Plexus (USA) Medical-grade Solid Silicone Rubber Product Portfolios and Specifications

13.4.3 Bio-Plexus (USA) Medical-grade Solid Silicone Rubber Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 Bio-Plexus (USA) Main Business Overview

13.4.5 Bio-Plexus (USA) Latest Developments

13.5 Wacker Chemie (Germany)

13.5.1 Wacker Chemie (Germany) Company Information

13.5.2 Wacker Chemie (Germany) Medical-grade Solid Silicone Rubber Product Portfolios and Specifications

13.5.3 Wacker Chemie (Germany) Medical-grade Solid Silicone Rubber Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 Wacker Chemie (Germany) Main Business Overview

13.5.5 Wacker Chemie (Germany) Latest Developments

13.6 Elkem Silicones (Norway)

13.6.1 Elkem Silicones (Norway) Company Information

13.6.2 Elkem Silicones (Norway) Medical-grade Solid Silicone Rubber Product

Portfolios and Specifications

13.6.3 Elkem Silicones (Norway) Medical-grade Solid Silicone Rubber Sales, Revenue, Price and Gross Margin (2021-2026)

13.6.4 Elkem Silicones (Norway) Main Business Overview

13.6.5 Elkem Silicones (Norway) Latest Developments

13.7 Shin-Etsu Chemical (Japan)

13.7.1 Shin-Etsu Chemical (Japan) Company Information

13.7.2 Shin-Etsu Chemical (Japan) Medical-grade Solid Silicone Rubber Product

Portfolios and Specifications

13.7.3 Shin-Etsu Chemical (Japan) Medical-grade Solid Silicone Rubber Sales, Revenue, Price and Gross Margin (2021-2026)

13.7.4 Shin-Etsu Chemical (Japan) Main Business Overview

13.7.5 Shin-Etsu Chemical (Japan) Latest Developments

13.8 KCC Corporation (South Korea)

13.8.1 KCC Corporation (South Korea) Company Information

13.8.2 KCC Corporation (South Korea) Medical-grade Solid Silicone Rubber Product

Portfolios and Specifications

13.8.3 KCC Corporation (South Korea) Medical-grade Solid Silicone Rubber Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 KCC Corporation (South Korea) Main Business Overview

13.8.5 KCC Corporation (South Korea) Latest Developments

13.9 Betterly New Materials (China)

13.9.1 Betterly New Materials (China) Company Information

13.9.2 Betterly New Materials (China) Medical-grade Solid Silicone Rubber Product

Portfolios and Specifications

13.9.3 Betterly New Materials (China) Medical-grade Solid Silicone Rubber Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 Betterly New Materials (China) Main Business Overview

13.9.5 Betterly New Materials (China) Latest Developments

13.10 Chenguang Silicone (China)

13.10.1 Chenguang Silicone (China) Company Information

13.10.2 Chenguang Silicone (China) Medical-grade Solid Silicone Rubber Product

Portfolios and Specifications

13.10.3 Chenguang Silicone (China) Medical-grade Solid Silicone Rubber Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 Chenguang Silicone (China) Main Business Overview

13.10.5 Chenguang Silicone (China) Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Medical-grade Solid Silicone Rubber Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Medical-grade Solid Silicone Rubber Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Soft Type (10–30 Shore A)

Table 4. Major Players of Medium Type (40–60 Shore A)

Table 5. Major Players of Hard Type (70–90 Shore A)

Table 6. Global Medical-grade Solid Silicone Rubber Sales by Type (2021-2026) & (Tons)

Table 7. Global Medical-grade Solid Silicone Rubber Sales Market Share by Type (2021-2026)

Table 8. Global Medical-grade Solid Silicone Rubber Revenue by Type (2021-2026) & (\$ million)

Table 9. Global Medical-grade Solid Silicone Rubber Revenue Market Share by Type (2021-2026)

Table 10. Global Medical-grade Solid Silicone Rubber Sale Price by Type (2021-2026) & (US\$/Ton)

Table 11. Major Players of Platinum-cured Silicone

Table 12. Major Players of Peroxide-cured Silicone

Table 13. Global Medical-grade Solid Silicone Rubber Sales by Curing Mechanism (2021-2026) & (Tons)

Table 14. Global Medical-grade Solid Silicone Rubber Sales Market Share by Curing Mechanism (2021-2026)

Table 15. Global Medical-grade Solid Silicone Rubber Revenue by Curing Mechanism (2021-2026) & (\$ million)

Table 16. Global Medical-grade Solid Silicone Rubber Revenue Market Share by Curing Mechanism (2021-2026)

Table 17. Global Medical-grade Solid Silicone Rubber Sale Price by Curing Mechanism (2021-2026) & (US\$/Ton)

Table 18. Global Medical-grade Solid Silicone Rubber Sale by Application (2021-2026) & (Tons)

Table 19. Global Medical-grade Solid Silicone Rubber Sale Market Share by Application (2021-2026)

Table 20. Global Medical-grade Solid Silicone Rubber Revenue by Application (2021-2026) & (\$ million)

Table 21. Global Medical-grade Solid Silicone Rubber Revenue Market Share by Application (2021-2026)

Table 22. Global Medical-grade Solid Silicone Rubber Sale Price by Application (2021-2026) & (US\$/Ton)

Table 23. Global Medical-grade Solid Silicone Rubber Sales by Company (2021-2026) & (Tons)

Table 24. Global Medical-grade Solid Silicone Rubber Sales Market Share by Company (2021-2026)

Table 25. Global Medical-grade Solid Silicone Rubber Revenue by Company (2021-2026) & (\$ millions)

Table 26. Global Medical-grade Solid Silicone Rubber Revenue Market Share by Company (2021-2026)

Table 27. Global Medical-grade Solid Silicone Rubber Sale Price by Company (2021-2026) & (US\$/Ton)

Table 28. Key Manufacturers Medical-grade Solid Silicone Rubber Producing Area Distribution and Sales Area

Table 29. Players Medical-grade Solid Silicone Rubber Products Offered

Table 30. Medical-grade Solid Silicone Rubber Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 31. New Products and Potential Entrants

Table 32. Market M&A Activity & Strategy

Table 33. Global Medical-grade Solid Silicone Rubber Sales by Geographic Region (2021-2026) & (Tons)

Table 34. Global Medical-grade Solid Silicone Rubber Sales Market Share Geographic Region (2021-2026)

Table 35. Global Medical-grade Solid Silicone Rubber Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 36. Global Medical-grade Solid Silicone Rubber Revenue Market Share by Geographic Region (2021-2026)

Table 37. Global Medical-grade Solid Silicone Rubber Sales by Country/Region (2021-2026) & (Tons)

Table 38. Global Medical-grade Solid Silicone Rubber Sales Market Share by Country/Region (2021-2026)

Table 39. Global Medical-grade Solid Silicone Rubber Revenue by Country/Region (2021-2026) & (\$ millions)

Table 40. Global Medical-grade Solid Silicone Rubber Revenue Market Share by Country/Region (2021-2026)

Table 41. Americas Medical-grade Solid Silicone Rubber Sales by Country (2021-2026) & (Tons)

Table 42. Americas Medical-grade Solid Silicone Rubber Sales Market Share by Country (2021-2026)

Table 43. Americas Medical-grade Solid Silicone Rubber Revenue by Country (2021-2026) & (\$ millions)

Table 44. Americas Medical-grade Solid Silicone Rubber Sales by Type (2021-2026) & (Tons)

Table 45. Americas Medical-grade Solid Silicone Rubber Sales by Application (2021-2026) & (Tons)

Table 46. APAC Medical-grade Solid Silicone Rubber Sales by Region (2021-2026) & (Tons)

Table 47. APAC Medical-grade Solid Silicone Rubber Sales Market Share by Region (2021-2026)

Table 48. APAC Medical-grade Solid Silicone Rubber Revenue by Region (2021-2026) & (\$ millions)

Table 49. APAC Medical-grade Solid Silicone Rubber Sales by Type (2021-2026) & (Tons)

Table 50. APAC Medical-grade Solid Silicone Rubber Sales by Application (2021-2026) & (Tons)

Table 51. Europe Medical-grade Solid Silicone Rubber Sales by Country (2021-2026) & (Tons)

Table 52. Europe Medical-grade Solid Silicone Rubber Revenue by Country (2021-2026) & (\$ millions)

Table 53. Europe Medical-grade Solid Silicone Rubber Sales by Type (2021-2026) & (Tons)

Table 54. Europe Medical-grade Solid Silicone Rubber Sales by Application (2021-2026) & (Tons)

Table 55. Middle East & Africa Medical-grade Solid Silicone Rubber Sales by Country (2021-2026) & (Tons)

Table 56. Middle East & Africa Medical-grade Solid Silicone Rubber Revenue Market Share by Country (2021-2026)

Table 57. Middle East & Africa Medical-grade Solid Silicone Rubber Sales by Type (2021-2026) & (Tons)

Table 58. Middle East & Africa Medical-grade Solid Silicone Rubber Sales by Application (2021-2026) & (Tons)

Table 59. Key Market Drivers & Growth Opportunities of Medical-grade Solid Silicone Rubber

Table 60. Key Market Challenges & Risks of Medical-grade Solid Silicone Rubber

Table 61. Key Industry Trends of Medical-grade Solid Silicone Rubber

Table 62. Medical-grade Solid Silicone Rubber Raw Material

- Table 63. Key Suppliers of Raw Materials
- Table 64. Medical-grade Solid Silicone Rubber Distributors List
- Table 65. Medical-grade Solid Silicone Rubber Customer List
- Table 66. Global Medical-grade Solid Silicone Rubber Sales Forecast by Region (2027-2032) & (Tons)
- Table 67. Global Medical-grade Solid Silicone Rubber Revenue Forecast by Region (2027-2032) & (\$ millions)
- Table 68. Americas Medical-grade Solid Silicone Rubber Sales Forecast by Country (2027-2032) & (Tons)
- Table 69. Americas Medical-grade Solid Silicone Rubber Annual Revenue Forecast by Country (2027-2032) & (\$ millions)
- Table 70. APAC Medical-grade Solid Silicone Rubber Sales Forecast by Region (2027-2032) & (Tons)
- Table 71. APAC Medical-grade Solid Silicone Rubber Annual Revenue Forecast by Region (2027-2032) & (\$ millions)
- Table 72. Europe Medical-grade Solid Silicone Rubber Sales Forecast by Country (2027-2032) & (Tons)
- Table 73. Europe Medical-grade Solid Silicone Rubber Revenue Forecast by Country (2027-2032) & (\$ millions)
- Table 74. Middle East & Africa Medical-grade Solid Silicone Rubber Sales Forecast by Country (2027-2032) & (Tons)
- Table 75. Middle East & Africa Medical-grade Solid Silicone Rubber Revenue Forecast by Country (2027-2032) & (\$ millions)
- Table 76. Global Medical-grade Solid Silicone Rubber Sales Forecast by Type (2027-2032) & (Tons)
- Table 77. Global Medical-grade Solid Silicone Rubber Revenue Forecast by Type (2027-2032) & (\$ millions)
- Table 78. Global Medical-grade Solid Silicone Rubber Sales Forecast by Application (2027-2032) & (Tons)
- Table 79. Global Medical-grade Solid Silicone Rubber Revenue Forecast by Application (2027-2032) & (\$ millions)
- Table 80. Dow Chemical (USA) Basic Information, Medical-grade Solid Silicone Rubber Manufacturing Base, Sales Area and Its Competitors
- Table 81. Dow Chemical (USA) Medical-grade Solid Silicone Rubber Product Portfolios and Specifications
- Table 82. Dow Chemical (USA) Medical-grade Solid Silicone Rubber Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)
- Table 83. Dow Chemical (USA) Main Business
- Table 84. Dow Chemical (USA) Latest Developments

Table 85. Momentive (USA) Basic Information, Medical-grade Solid Silicone Rubber Manufacturing Base, Sales Area and Its Competitors

Table 86. Momentive (USA) Medical-grade Solid Silicone Rubber Product Portfolios and Specifications

Table 87. Momentive (USA) Medical-grade Solid Silicone Rubber Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 88. Momentive (USA) Main Business

Table 89. Momentive (USA) Latest Developments

Table 90. NuSil Technology (USA) Basic Information, Medical-grade Solid Silicone Rubber Manufacturing Base, Sales Area and Its Competitors

Table 91. NuSil Technology (USA) Medical-grade Solid Silicone Rubber Product Portfolios and Specifications

Table 92. NuSil Technology (USA) Medical-grade Solid Silicone Rubber Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 93. NuSil Technology (USA) Main Business

Table 94. NuSil Technology (USA) Latest Developments

Table 95. Bio-Plexus (USA) Basic Information, Medical-grade Solid Silicone Rubber Manufacturing Base, Sales Area and Its Competitors

Table 96. Bio-Plexus (USA) Medical-grade Solid Silicone Rubber Product Portfolios and Specifications

Table 97. Bio-Plexus (USA) Medical-grade Solid Silicone Rubber Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 98. Bio-Plexus (USA) Main Business

Table 99. Bio-Plexus (USA) Latest Developments

Table 100. Wacker Chemie (Germany) Basic Information, Medical-grade Solid Silicone Rubber Manufacturing Base, Sales Area and Its Competitors

Table 101. Wacker Chemie (Germany) Medical-grade Solid Silicone Rubber Product Portfolios and Specifications

Table 102. Wacker Chemie (Germany) Medical-grade Solid Silicone Rubber Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 103. Wacker Chemie (Germany) Main Business

Table 104. Wacker Chemie (Germany) Latest Developments

Table 105. Elkem Silicones (Norway) Basic Information, Medical-grade Solid Silicone Rubber Manufacturing Base, Sales Area and Its Competitors

Table 106. Elkem Silicones (Norway) Medical-grade Solid Silicone Rubber Product Portfolios and Specifications

Table 107. Elkem Silicones (Norway) Medical-grade Solid Silicone Rubber Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 108. Elkem Silicones (Norway) Main Business

- Table 109. Elkem Silicones (Norway) Latest Developments
- Table 110. Shin-Etsu Chemical (Japan) Basic Information, Medical-grade Solid Silicone Rubber Manufacturing Base, Sales Area and Its Competitors
- Table 111. Shin-Etsu Chemical (Japan) Medical-grade Solid Silicone Rubber Product Portfolios and Specifications
- Table 112. Shin-Etsu Chemical (Japan) Medical-grade Solid Silicone Rubber Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)
- Table 113. Shin-Etsu Chemical (Japan) Main Business
- Table 114. Shin-Etsu Chemical (Japan) Latest Developments
- Table 115. KCC Corporation (South Korea) Basic Information, Medical-grade Solid Silicone Rubber Manufacturing Base, Sales Area and Its Competitors
- Table 116. KCC Corporation (South Korea) Medical-grade Solid Silicone Rubber Product Portfolios and Specifications
- Table 117. KCC Corporation (South Korea) Medical-grade Solid Silicone Rubber Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)
- Table 118. KCC Corporation (South Korea) Main Business
- Table 119. KCC Corporation (South Korea) Latest Developments
- Table 120. Betterly New Materials (China) Basic Information, Medical-grade Solid Silicone Rubber Manufacturing Base, Sales Area and Its Competitors
- Table 121. Betterly New Materials (China) Medical-grade Solid Silicone Rubber Product Portfolios and Specifications
- Table 122. Betterly New Materials (China) Medical-grade Solid Silicone Rubber Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)
- Table 123. Betterly New Materials (China) Main Business
- Table 124. Betterly New Materials (China) Latest Developments
- Table 125. Chenguang Silicone (China) Basic Information, Medical-grade Solid Silicone Rubber Manufacturing Base, Sales Area and Its Competitors
- Table 126. Chenguang Silicone (China) Medical-grade Solid Silicone Rubber Product Portfolios and Specifications
- Table 127. Chenguang Silicone (China) Medical-grade Solid Silicone Rubber Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)
- Table 128. Chenguang Silicone (China) Main Business
- Table 129. Chenguang Silicone (China) Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Medical-grade Solid Silicone Rubber
- Figure 2. Medical-grade Solid Silicone Rubber Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Medical-grade Solid Silicone Rubber Sales Growth Rate 2021-2032 (Tons)
- Figure 7. Global Medical-grade Solid Silicone Rubber Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Medical-grade Solid Silicone Rubber Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Medical-grade Solid Silicone Rubber Sales Market Share by Country/Region (2025)
- Figure 10. Medical-grade Solid Silicone Rubber Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Soft Type (10–30 Shore A)
- Figure 12. Product Picture of Medium Type (40–60 Shore A)
- Figure 13. Product Picture of Hard Type (70–90 Shore A)
- Figure 14. Global Medical-grade Solid Silicone Rubber Sales Market Share by Type in 2026
- Figure 15. Global Medical-grade Solid Silicone Rubber Revenue Market Share by Type (2021-2026)
- Figure 16. Product Picture of Platinum-cured Silicone
- Figure 17. Product Picture of Peroxide-cured Silicone
- Figure 18. Global Medical-grade Solid Silicone Rubber Sales Market Share by Curing Mechanism in 2026
- Figure 19. Global Medical-grade Solid Silicone Rubber Revenue Market Share by Curing Mechanism (2021-2026)
- Figure 20. Medical-grade Solid Silicone Rubber Consumed in Medical Device
- Figure 21. Global Medical-grade Solid Silicone Rubber Market: Medical Device (2021-2026) & (Tons)
- Figure 22. Medical-grade Solid Silicone Rubber Consumed in Dental Implant
- Figure 23. Global Medical-grade Solid Silicone Rubber Market: Dental Implant (2021-2026) & (Tons)
- Figure 24. Medical-grade Solid Silicone Rubber Consumed in Others

Figure 25. Global Medical-grade Solid Silicone Rubber Market: Others (2021-2026) & (Tons)

Figure 26. Global Medical-grade Solid Silicone Rubber Sale Market Share by Application (2025)

Figure 27. Global Medical-grade Solid Silicone Rubber Revenue Market Share by Application in 2026

Figure 28. Medical-grade Solid Silicone Rubber Sales by Company in 2026 (Tons)

Figure 29. Global Medical-grade Solid Silicone Rubber Sales Market Share by Company in 2026

Figure 30. Medical-grade Solid Silicone Rubber Revenue by Company in 2026 (\$ millions)

Figure 31. Global Medical-grade Solid Silicone Rubber Revenue Market Share by Company in 2026

Figure 32. Global Medical-grade Solid Silicone Rubber Sales Market Share by Geographic Region (2021-2026)

Figure 33. Global Medical-grade Solid Silicone Rubber Revenue Market Share by Geographic Region in 2026

Figure 34. Americas Medical-grade Solid Silicone Rubber Sales 2021-2026 (Tons)

Figure 35. Americas Medical-grade Solid Silicone Rubber Revenue 2021-2026 (\$ millions)

Figure 36. APAC Medical-grade Solid Silicone Rubber Sales 2021-2026 (Tons)

Figure 37. APAC Medical-grade Solid Silicone Rubber Revenue 2021-2026 (\$ millions)

Figure 38. Europe Medical-grade Solid Silicone Rubber Sales 2021-2026 (Tons)

Figure 39. Europe Medical-grade Solid Silicone Rubber Revenue 2021-2026 (\$ millions)

Figure 40. Middle East & Africa Medical-grade Solid Silicone Rubber Sales 2021-2026 (Tons)

Figure 41. Middle East & Africa Medical-grade Solid Silicone Rubber Revenue 2021-2026 (\$ millions)

Figure 42. Americas Medical-grade Solid Silicone Rubber Sales Market Share by Country in 2026

Figure 43. Americas Medical-grade Solid Silicone Rubber Revenue Market Share by Country (2021-2026)

Figure 44. Americas Medical-grade Solid Silicone Rubber Sales Market Share by Type (2021-2026)

Figure 45. Americas Medical-grade Solid Silicone Rubber Sales Market Share by Application (2021-2026)

Figure 46. United States Medical-grade Solid Silicone Rubber Revenue Growth 2021-2026 (\$ millions)

Figure 47. Canada Medical-grade Solid Silicone Rubber Revenue Growth 2021-2026 (\$

millions)

Figure 48. Mexico Medical-grade Solid Silicone Rubber Revenue Growth 2021-2026 (\$ millions)

Figure 49. Brazil Medical-grade Solid Silicone Rubber Revenue Growth 2021-2026 (\$ millions)

Figure 50. APAC Medical-grade Solid Silicone Rubber Sales Market Share by Region in 2026

Figure 51. APAC Medical-grade Solid Silicone Rubber Revenue Market Share by Region (2021-2026)

Figure 52. APAC Medical-grade Solid Silicone Rubber Sales Market Share by Type (2021-2026)

Figure 53. APAC Medical-grade Solid Silicone Rubber Sales Market Share by Application (2021-2026)

Figure 54. China Medical-grade Solid Silicone Rubber Revenue Growth 2021-2026 (\$ millions)

Figure 55. Japan Medical-grade Solid Silicone Rubber Revenue Growth 2021-2026 (\$ millions)

Figure 56. South Korea Medical-grade Solid Silicone Rubber Revenue Growth 2021-2026 (\$ millions)

Figure 57. Southeast Asia Medical-grade Solid Silicone Rubber Revenue Growth 2021-2026 (\$ millions)

Figure 58. India Medical-grade Solid Silicone Rubber Revenue Growth 2021-2026 (\$ millions)

Figure 59. Australia Medical-grade Solid Silicone Rubber Revenue Growth 2021-2026 (\$ millions)

Figure 60. China Taiwan Medical-grade Solid Silicone Rubber Revenue Growth 2021-2026 (\$ millions)

Figure 61. Europe Medical-grade Solid Silicone Rubber Sales Market Share by Country in 2026

Figure 62. Europe Medical-grade Solid Silicone Rubber Revenue Market Share by Country (2021-2026)

Figure 63. Europe Medical-grade Solid Silicone Rubber Sales Market Share by Type (2021-2026)

Figure 64. Europe Medical-grade Solid Silicone Rubber Sales Market Share by Application (2021-2026)

Figure 65. Germany Medical-grade Solid Silicone Rubber Revenue Growth 2021-2026 (\$ millions)

Figure 66. France Medical-grade Solid Silicone Rubber Revenue Growth 2021-2026 (\$ millions)

Figure 67. UK Medical-grade Solid Silicone Rubber Revenue Growth 2021-2026 (\$ millions)

Figure 68. Italy Medical-grade Solid Silicone Rubber Revenue Growth 2021-2026 (\$ millions)

Figure 69. Russia Medical-grade Solid Silicone Rubber Revenue Growth 2021-2026 (\$ millions)

Figure 70. Middle East & Africa Medical-grade Solid Silicone Rubber Sales Market Share by Country (2021-2026)

Figure 71. Middle East & Africa Medical-grade Solid Silicone Rubber Sales Market Share by Type (2021-2026)

Figure 72. Middle East & Africa Medical-grade Solid Silicone Rubber Sales Market Share by Application (2021-2026)

Figure 73. Egypt Medical-grade Solid Silicone Rubber Revenue Growth 2021-2026 (\$ millions)

Figure 74. South Africa Medical-grade Solid Silicone Rubber Revenue Growth 2021-2026 (\$ millions)

Figure 75. Israel Medical-grade Solid Silicone Rubber Revenue Growth 2021-2026 (\$ millions)

Figure 76. Turkey Medical-grade Solid Silicone Rubber Revenue Growth 2021-2026 (\$ millions)

Figure 77. GCC Countries Medical-grade Solid Silicone Rubber Revenue Growth 2021-2026 (\$ millions)

Figure 78. Manufacturing Cost Structure Analysis of Medical-grade Solid Silicone Rubber in 2026

Figure 79. Manufacturing Process Analysis of Medical-grade Solid Silicone Rubber

Figure 80. Industry Chain Structure of Medical-grade Solid Silicone Rubber

Figure 81. Channels of Distribution

Figure 82. Global Medical-grade Solid Silicone Rubber Sales Market Forecast by Region (2027-2032)

Figure 83. Global Medical-grade Solid Silicone Rubber Revenue Market Share Forecast by Region (2027-2032)

Figure 84. Global Medical-grade Solid Silicone Rubber Sales Market Share Forecast by Type (2027-2032)

Figure 85. Global Medical-grade Solid Silicone Rubber Revenue Market Share Forecast by Type (2027-2032)

Figure 86. Global Medical-grade Solid Silicone Rubber Sales Market Share Forecast by Application (2027-2032)

Figure 87. Global Medical-grade Solid Silicone Rubber Revenue Market Share Forecast by Application (2027-2032)

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