

Silicone Adhesives Market - Global Industry Size, Share, Trends, Opportunity, and Forecast Segmented By Type (One-Component and Two-Component), By Technology (PSA and Non-PSA), By End-Use Industry (Building & Construction, Electrical & Electronics, Transportation, Medical and Others), By Region & Competition, 2021-2031F

<https://marketpublishers.com/r/S879D162EDF6EN.html>

Date: January 2026

Pages: 186

Price: US\$ 4,500.00 (Single User License)

ID: S879D162EDF6EN

Abstracts

The Global Silicone Adhesives Market is projected to expand from a valuation of USD 3.49 billion in 2025 to USD 5.19 billion by 2031, achieving a compound annual growth rate (CAGR) of 6.84%. These adhesives are high-performance elastomeric bonding agents derived from silicone polymers, distinguished by their superior thermal stability, chemical resistance, and flexibility under extreme environmental conditions. The market's growth is primarily fueled by increased production of electric vehicles and the ongoing miniaturization of advanced consumer electronics, both of which demand robust protection against vibration and moisture as well as effective thermal management. The scale of manufacturing supporting these industries is immense; according to the China Adhesives and Tape Industry Association, the total output of the adhesive industry in Mainland China was approximately 8.25 million tons in 2023.

Despite this strong demand, the market faces a significant hurdle due to the volatility of raw material costs, specifically silicon metal. This instability in pricing leads to unpredictable production expenses, which in turn compresses profit margins and complicates the formulation of long-term pricing strategies for manufacturers operating in a competitive global environment.

Market Driver

The rapid uptake of electric vehicles and the push for automotive lightweighting are driving the need for high-performance bonding solutions essential for battery assembly and thermal management. Silicone adhesives have become critical in this sector because of their ability to dissipate heat and preserve structural integrity under high thermal stress, ensuring the safety and longevity of battery packs. As reported by the International Energy Agency in the 'Global EV Outlook 2024' from April 2024, electric car sales surged to nearly 14 million in 2023, generating a substantial requirement for specialized adhesives that can meet the operational rigors of next-generation automotive power systems. This manufacturing evolution reduces reliance on heavy mechanical fasteners, thereby decreasing overall vehicle weight and improving range efficiency for sustainable transportation.

Concurrently, the growth of global infrastructure and energy-efficient building construction is boosting the consumption of silicone-based sealants and adhesives, which are valued for their exceptional weatherability. These materials are foundational in modern glazing and curtain wall applications where insulation and air-tightness are requisite for meeting strict green building standards. Underscoring this momentum, the U.S. Census Bureau's 'Monthly Construction Spending, May 2024' report released in July 2024 estimated construction spending at a seasonally adjusted annual rate of \$2,139.8 billion, reflecting sustained investment in projects utilizing these bonding agents. The market's scale is further illustrated by key supplier revenues; Wacker Chemie AG reported in 2024 that its silicones division achieved total sales of ?2.74 billion for the previous fiscal year, highlighting the significant commercial volume of silicone products in industrial supply chains.

Market Challenge

The volatility of raw material costs, particularly for silicon metal, stands as a formidable barrier to the continued expansion of the Global Silicone Adhesives Market. Silicon metal acts as the primary feedstock for silicone polymers, and its erratic price fluctuations directly destabilize the cost structures of adhesive manufacturers. When input costs shift unpredictably, producers face immediate pressure on profit margins, making it extremely difficult to sustain competitive pricing for long-term contracts with major automotive and electronics clients. This financial uncertainty compels manufacturers to either absorb cost spikes or risk losing volume, thereby straining the capital resources needed for market development or capacity expansion.

This instability is structurally driven by supply-demand imbalances within the upstream

supply chain, which lead to severe pricing oscillations. According to the China Nonferrous Metals Industry Association, by the end of 2024, China's installed capacity of primary silicon metal had reached 8.5 million metric tons annually, significantly exceeding the actual production of 4.72 million metric tons. Such a massive surplus creates an environment ripe for aggressive price cutting followed by sudden production corrections, fueling a cycle of cost unpredictability that hinders strategic planning and investment throughout the silicone adhesives sector.

Market Trends

The market is being rapidly reshaped by the integration of electrically conductive silicones for 5G applications, as telecommunications infrastructure and consumer devices increasingly require advanced electromagnetic interference (EMI) shielding. These specialized adhesives are engineered to facilitate reliable grounding and electrical interconnects within densely packed 5G components, where managing thermal buildup and signal integrity is vital. As global network deployment accelerates, the manufacturing of 5G-enabled hardware has surged, directly boosting the consumption of conductive silicone solutions that ensure device reliability under high-frequency operation. Highlighting this expansion, the 'Ericsson Mobility Report June 2024' noted that global 5G subscriptions increased by 160 million in the first quarter of 2024 alone, reaching a total of 1.7 billion and signaling a continued reliance on these high-performance bonding materials.

Simultaneously, the rise of medical-grade adhesives for wearable health devices is driving innovation in biocompatible, skin-safe bonding agents. Manufacturers are focusing on formulating soft skin adhesives (SSAs) that provide gentle adhesion for long-term wear, such as in continuous glucose monitors and smart health patches, while minimizing trauma upon removal. This trend is underpinned by extensive research and development aimed at combining sensors with breathable, flexible silicone interfaces that perform reliably across variable physiological conditions. The sector's dedication to technological advancement is evident in MedTech Europe's 'Facts & Figures 2024' report from July 2024, which recorded over 15,900 patent applications filed with the European Patent Office in the medical technology field in 2023, reflecting a robust R&D environment for next-generation adhesive solutions.

Key Market Players

Wacker Chemie

DOW Corning

Momentive Performance Materials

3M Company

Illinois Tool Works

H.B. Fuller

Shin-Etsu

Dymax Corporation

Henkel

Sika

Report Scope

In this report, the Global Silicone Adhesives Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Silicone Adhesives Market, By Type

One-Component

Two-Component

Silicone Adhesives Market, By Technology

PSA

Non-PSA

Silicone Adhesives Market, By End-Use Industry

Building & Construction

Electrical & Electronics

Transportation

Medical

Others

Silicone Adhesives Market, By Region

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Silicone Adhesives Market.

Available Customizations:

Global Silicone Adhesives Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

Contents

1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
 - 1.2.3. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

3. EXECUTIVE SUMMARY

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, Trends

4. VOICE OF CUSTOMER

5. GLOBAL SILICONE ADHESIVES MARKET OUTLOOK

- 5.1. Market Size & Forecast
 - 5.1.1. By Value
- 5.2. Market Share & Forecast
 - 5.2.1. By Type (One-Component, Two-Component)
 - 5.2.2. By Technology (PSA, Non-PSA)
 - 5.2.3. By End-Use Industry (Building & Construction, Electrical & Electronics, Transportation, Medical, Others)

- 5.2.4. By Region
- 5.2.5. By Company (2025)
- 5.3. Market Map

6. NORTH AMERICA SILICONE ADHESIVES MARKET OUTLOOK

- 6.1. Market Size & Forecast
 - 6.1.1. By Value
- 6.2. Market Share & Forecast
 - 6.2.1. By Type
 - 6.2.2. By Technology
 - 6.2.3. By End-Use Industry
 - 6.2.4. By Country
- 6.3. North America: Country Analysis
 - 6.3.1. United States Silicone Adhesives Market Outlook
 - 6.3.1.1. Market Size & Forecast
 - 6.3.1.1.1. By Value
 - 6.3.1.2. Market Share & Forecast
 - 6.3.1.2.1. By Type
 - 6.3.1.2.2. By Technology
 - 6.3.1.2.3. By End-Use Industry
 - 6.3.2. Canada Silicone Adhesives Market Outlook
 - 6.3.2.1. Market Size & Forecast
 - 6.3.2.1.1. By Value
 - 6.3.2.2. Market Share & Forecast
 - 6.3.2.2.1. By Type
 - 6.3.2.2.2. By Technology
 - 6.3.2.2.3. By End-Use Industry
 - 6.3.3. Mexico Silicone Adhesives Market Outlook
 - 6.3.3.1. Market Size & Forecast
 - 6.3.3.1.1. By Value
 - 6.3.3.2. Market Share & Forecast
 - 6.3.3.2.1. By Type
 - 6.3.3.2.2. By Technology
 - 6.3.3.2.3. By End-Use Industry

7. EUROPE SILICONE ADHESIVES MARKET OUTLOOK

- 7.1. Market Size & Forecast

- 7.1.1. By Value
- 7.2. Market Share & Forecast
 - 7.2.1. By Type
 - 7.2.2. By Technology
 - 7.2.3. By End-Use Industry
 - 7.2.4. By Country
- 7.3. Europe: Country Analysis
 - 7.3.1. Germany Silicone Adhesives Market Outlook
 - 7.3.1.1. Market Size & Forecast
 - 7.3.1.1.1. By Value
 - 7.3.1.2. Market Share & Forecast
 - 7.3.1.2.1. By Type
 - 7.3.1.2.2. By Technology
 - 7.3.1.2.3. By End-Use Industry
 - 7.3.2. France Silicone Adhesives Market Outlook
 - 7.3.2.1. Market Size & Forecast
 - 7.3.2.1.1. By Value
 - 7.3.2.2. Market Share & Forecast
 - 7.3.2.2.1. By Type
 - 7.3.2.2.2. By Technology
 - 7.3.2.2.3. By End-Use Industry
 - 7.3.3. United Kingdom Silicone Adhesives Market Outlook
 - 7.3.3.1. Market Size & Forecast
 - 7.3.3.1.1. By Value
 - 7.3.3.2. Market Share & Forecast
 - 7.3.3.2.1. By Type
 - 7.3.3.2.2. By Technology
 - 7.3.3.2.3. By End-Use Industry
 - 7.3.4. Italy Silicone Adhesives Market Outlook
 - 7.3.4.1. Market Size & Forecast
 - 7.3.4.1.1. By Value
 - 7.3.4.2. Market Share & Forecast
 - 7.3.4.2.1. By Type
 - 7.3.4.2.2. By Technology
 - 7.3.4.2.3. By End-Use Industry
 - 7.3.5. Spain Silicone Adhesives Market Outlook
 - 7.3.5.1. Market Size & Forecast
 - 7.3.5.1.1. By Value
 - 7.3.5.2. Market Share & Forecast

- 7.3.5.2.1. By Type
- 7.3.5.2.2. By Technology
- 7.3.5.2.3. By End-Use Industry

8. ASIA PACIFIC SILICONE ADHESIVES MARKET OUTLOOK

- 8.1. Market Size & Forecast
 - 8.1.1. By Value
- 8.2. Market Share & Forecast
 - 8.2.1. By Type
 - 8.2.2. By Technology
 - 8.2.3. By End-Use Industry
 - 8.2.4. By Country
- 8.3. Asia Pacific: Country Analysis
 - 8.3.1. China Silicone Adhesives Market Outlook
 - 8.3.1.1. Market Size & Forecast
 - 8.3.1.1.1. By Value
 - 8.3.1.2. Market Share & Forecast
 - 8.3.1.2.1. By Type
 - 8.3.1.2.2. By Technology
 - 8.3.1.2.3. By End-Use Industry
 - 8.3.2. India Silicone Adhesives Market Outlook
 - 8.3.2.1. Market Size & Forecast
 - 8.3.2.1.1. By Value
 - 8.3.2.2. Market Share & Forecast
 - 8.3.2.2.1. By Type
 - 8.3.2.2.2. By Technology
 - 8.3.2.2.3. By End-Use Industry
 - 8.3.3. Japan Silicone Adhesives Market Outlook
 - 8.3.3.1. Market Size & Forecast
 - 8.3.3.1.1. By Value
 - 8.3.3.2. Market Share & Forecast
 - 8.3.3.2.1. By Type
 - 8.3.3.2.2. By Technology
 - 8.3.3.2.3. By End-Use Industry
 - 8.3.4. South Korea Silicone Adhesives Market Outlook
 - 8.3.4.1. Market Size & Forecast
 - 8.3.4.1.1. By Value
 - 8.3.4.2. Market Share & Forecast

- 8.3.4.2.1. By Type
- 8.3.4.2.2. By Technology
- 8.3.4.2.3. By End-Use Industry
- 8.3.5. Australia Silicone Adhesives Market Outlook
 - 8.3.5.1. Market Size & Forecast
 - 8.3.5.1.1. By Value
 - 8.3.5.2. Market Share & Forecast
 - 8.3.5.2.1. By Type
 - 8.3.5.2.2. By Technology
 - 8.3.5.2.3. By End-Use Industry

9. MIDDLE EAST & AFRICA SILICONE ADHESIVES MARKET OUTLOOK

- 9.1. Market Size & Forecast
 - 9.1.1. By Value
- 9.2. Market Share & Forecast
 - 9.2.1. By Type
 - 9.2.2. By Technology
 - 9.2.3. By End-Use Industry
 - 9.2.4. By Country
- 9.3. Middle East & Africa: Country Analysis
 - 9.3.1. Saudi Arabia Silicone Adhesives Market Outlook
 - 9.3.1.1. Market Size & Forecast
 - 9.3.1.1.1. By Value
 - 9.3.1.2. Market Share & Forecast
 - 9.3.1.2.1. By Type
 - 9.3.1.2.2. By Technology
 - 9.3.1.2.3. By End-Use Industry
 - 9.3.2. UAE Silicone Adhesives Market Outlook
 - 9.3.2.1. Market Size & Forecast
 - 9.3.2.1.1. By Value
 - 9.3.2.2. Market Share & Forecast
 - 9.3.2.2.1. By Type
 - 9.3.2.2.2. By Technology
 - 9.3.2.2.3. By End-Use Industry
 - 9.3.3. South Africa Silicone Adhesives Market Outlook
 - 9.3.3.1. Market Size & Forecast
 - 9.3.3.1.1. By Value
 - 9.3.3.2. Market Share & Forecast

- 9.3.3.2.1. By Type
- 9.3.3.2.2. By Technology
- 9.3.3.2.3. By End-Use Industry

10. SOUTH AMERICA SILICONE ADHESIVES MARKET OUTLOOK

- 10.1. Market Size & Forecast
 - 10.1.1. By Value
- 10.2. Market Share & Forecast
 - 10.2.1. By Type
 - 10.2.2. By Technology
 - 10.2.3. By End-Use Industry
 - 10.2.4. By Country
- 10.3. South America: Country Analysis
 - 10.3.1. Brazil Silicone Adhesives Market Outlook
 - 10.3.1.1. Market Size & Forecast
 - 10.3.1.1.1. By Value
 - 10.3.1.2. Market Share & Forecast
 - 10.3.1.2.1. By Type
 - 10.3.1.2.2. By Technology
 - 10.3.1.2.3. By End-Use Industry
 - 10.3.2. Colombia Silicone Adhesives Market Outlook
 - 10.3.2.1. Market Size & Forecast
 - 10.3.2.1.1. By Value
 - 10.3.2.2. Market Share & Forecast
 - 10.3.2.2.1. By Type
 - 10.3.2.2.2. By Technology
 - 10.3.2.2.3. By End-Use Industry
 - 10.3.3. Argentina Silicone Adhesives Market Outlook
 - 10.3.3.1. Market Size & Forecast
 - 10.3.3.1.1. By Value
 - 10.3.3.2. Market Share & Forecast
 - 10.3.3.2.1. By Type
 - 10.3.3.2.2. By Technology
 - 10.3.3.2.3. By End-Use Industry

11. MARKET DYNAMICS

- 11.1. Drivers

11.2. Challenges

12. MARKET TRENDS & DEVELOPMENTS

12.1. Merger & Acquisition (If Any)

12.2. Product Launches (If Any)

12.3. Recent Developments

13. GLOBAL SILICONE ADHESIVES MARKET: SWOT ANALYSIS

14. PORTER'S FIVE FORCES ANALYSIS

14.1. Competition in the Industry

14.2. Potential of New Entrants

14.3. Power of Suppliers

14.4. Power of Customers

14.5. Threat of Substitute Products

15. COMPETITIVE LANDSCAPE

15.1. Wacker Chemie

15.1.1. Business Overview

15.1.2. Products & Services

15.1.3. Recent Developments

15.1.4. Key Personnel

15.1.5. SWOT Analysis

15.2. DOW Corning

15.3. Momentive Performance Materials

15.4. 3M Company

15.5. Illinois Tool Works

15.6. H.B. Fuller

15.7. Shin-Etsu

15.8. Dymax Corporation

15.9. Henkel

15.10. Sika

16. STRATEGIC RECOMMENDATIONS

17. ABOUT US & DISCLAIMER

I would like to order

Product name: Silicone Adhesives Market - Global Industry Size, Share, Trends, Opportunity, and Forecast Segmented By Type (One-Component and Two-Component), By Technology (PSA and Non-PSA), By End-Use Industry (Building & Construction, Electrical & Electronics, Transportation, Medical and Others), By Region & Competition, 2021-2031F

Product link: <https://marketpublishers.com/r/S879D162EDF6EN.html>

Price: US\$ 4,500.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/S879D162EDF6EN.html>