

Global Silicone Rubber Based-Conductive Composite Market Growth 2026-2032

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Abstracts

The global Silicone Rubber Based-Conductive Composite market size is predicted to grow from US\$ 2295 million in 2025 to US\$ 4107 million in 2032; it is expected to grow at a CAGR of 8.7% from 2026 to 2032.

Silicone rubber-based conductive composites are functional elastomeric materials formed by dispersing electrically conductive fillers—such as carbon black, graphite, carbon nanotubes, graphene, silver, nickel, or copper powders—into a silicone rubber matrix to impart stable electrical conductivity while retaining silicone's inherent flexibility, thermal stability, chemical resistance, and environmental durability; these composites are widely used in EMI shielding, flexible electrodes, pressure and strain sensors, conductive gaskets, heating elements, and wearable or automotive electronics. The supply chain typically begins upstream with silicone polymers (HTV, LSR, or RTV silicones) produced by global silicone manufacturers, alongside conductive fillers sourced from carbon material suppliers or metal powder producers; midstream processing involves compounders and material formulators who perform filler surface treatment, dispersion, compounding, and curing system optimization to achieve target conductivity, mechanical strength, and durability; downstream, the composites are shaped through molding, extrusion, calendaring, or coating by component manufacturers, and finally integrated by OEMs in electronics, automotive, industrial equipment, medical devices, and energy applications where reliable conductivity under mechanical stress and harsh environments is required. In 2025, global silicone rubber-based conductive composite production is estimated at approximately 42,000 tons against an installed global production capacity of about 55,000 tons per year, with products typically priced at an average of USD 48,000–95,000 per ton, while leading manufacturers in this segment achieve gross margins of around 39%.

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

Global key Silicone Rubber Based-Conductive Composite players cover Specialty Silicone Products (USA), Wacker Chemie (Germany), Shin-Etsu Chemical (Japan), Dow Chemical (USA), Saint-Gobain (France), 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 "Silicone Rubber Based-Conductive Composite Industry Forecast" looks at past sales and reviews total world Silicone Rubber Based-Conductive Composite sales in 2025, providing a comprehensive analysis by region and market sector of projected Silicone Rubber Based-Conductive Composite sales for 2026 through 2032. With Silicone Rubber Based-Conductive Composite sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Silicone Rubber Based-Conductive Composite industry.

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Silicone Rubber Based-Conductive Composite 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 Silicone Rubber Based-Conductive Composite.

This report presents a comprehensive overview, market shares, and growth opportunities of Silicone Rubber Based-Conductive Composite market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Antistatic Grade (10²–10⁷ Ω·cm)

Semi-conductive Grade (10²–10⁷ Ω·cm)

Highly Conductive Grade (

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 Silicone Rubber Based-Conductive Composite Annual Sales 2021-2032
 - 2.1.2 World Current & Future Analysis for Silicone Rubber Based-Conductive Composite by Geographic Region, 2021, 2025 & 2032
 - 2.1.3 World Current & Future Analysis for Silicone Rubber Based-Conductive Composite by Country/Region, 2021, 2025 & 2032
- 2.2 Silicone Rubber Based-Conductive Composite Segment by Type
 - 2.2.1 Antistatic Grade (10⁷–10⁹ Ω·cm)
 - 2.2.2 Semi-conductive Grade (10⁴–10⁷ Ω·cm)
 - 2.2.3 Highly Conductive Grade (

List Of Tables

LIST OF TABLES

Table 1. Silicone Rubber Based-Conductive Composite Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Silicone Rubber Based-Conductive Composite Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Antistatic Grade (10²–10⁷ Ω·cm)

Table 4. Major Players of Semi-conductive Grade (10²–10⁷ Ω·cm)

Table 5. Major Players of Highly Conductive Grade (

List Of Figures

LIST OF FIGURES

Figure 1. Picture of Silicone Rubber Based-Conductive Composite

Figure 2. Silicone Rubber Based-Conductive Composite Report Years Considered

Figure 3. Research Objectives

Figure 4. Research Methodology

Figure 5. Research Process and Data Source

Figure 6. Global Silicone Rubber Based-Conductive Composite Sales Growth Rate 2021-2032 (Tons)

Figure 7. Global Silicone Rubber Based-Conductive Composite Revenue Growth Rate 2021-2032 (\$ millions)

Figure 8. Silicone Rubber Based-Conductive Composite Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Figure 9. Silicone Rubber Based-Conductive Composite Sales Market Share by Country/Region (2025)

Figure 10. Silicone Rubber Based-Conductive Composite Sales Market Share by Country/Region (2021, 2025 & 2032)

Figure 11. Product Picture of Antistatic Grade (10²–10⁷ Ω·cm)

Figure 12. Product Picture of Semi-conductive Grade (10²–10⁷ Ω·cm)

Figure 13. Product Picture of Highly Conductive Grade (

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