

Global Active Component Silver Powder and Paste Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Active Component Silver Powder and Paste market size was valued at US\$ 296 million in 2023 and is forecast to a readjusted size of USD 351 million by 2030 with a CAGR of 2.5% during review period.

Active component silver powder and paste are specialized materials used in the manufacturing of electronic components such as capacitors, resistors, and conductive traces on circuit boards. These materials are composed of silver particles suspended in a liquid medium (paste) or as a dry powder, and they play a crucial role in creating conductive connections in electronic devices.

Market Drivers for Active Component Silver Powder and Paste:

Growing Electronics Industry: The expanding electronics industry, driven by advancements in consumer electronics, automotive electronics, telecommunications, and IoT devices, fuels the demand for active component silver powder and paste in manufacturing electronic components.

Conductive Properties: Silver is prized for its high electrical conductivity, making silver powder and paste ideal materials for creating reliable and efficient conductive pathways in electronic components, ensuring optimal performance and signal transmission.

Miniaturization of Electronics: The trend toward smaller and more compact electronic devices requires materials with high conductivity and precision for creating intricate circuit patterns, driving the demand for active component silver powder and paste in microelectronics manufacturing.

Reliability and Durability: Silver powder and paste offer excellent adhesion, stability, and corrosion resistance properties, ensuring long-term reliability and durability of electronic components even under harsh environmental conditions.

Emerging Technologies: The adoption of emerging technologies such as 5G, AI, electric vehicles, and renewable energy systems necessitates high-performance electronic components that rely on active component silver powder and paste for their electrical conductivity and reliability.

Printed Electronics: Active component silver powder and paste are essential materials for printed electronics applications, enabling the deposition of conductive traces, antennas, and sensors on flexible substrates using printing techniques like screen printing and inkjet printing.

Environmental Regulations: The shift toward lead-free and environmentally friendly electronic manufacturing processes drives the demand for active component silver powder and paste formulations that comply with regulatory standards and sustainability requirements.

Market Challenges for Active Component Silver Powder and Paste:

Cost and Price Volatility: The cost of silver, as a precious metal, can be subject to price fluctuations in the global market, impacting the production costs of active component silver powder and paste and influencing pricing strategies for manufacturers.

Material Compatibility: Ensuring compatibility of active component silver powder and paste with various substrates, coatings, and manufacturing processes poses a challenge for electronics manufacturers seeking consistent performance and quality in their products.

Dispersion and Homogeneity: Achieving uniform dispersion of silver particles in the paste or powder form, as well as maintaining consistency in particle size and distribution, is crucial for the conductivity and reliability of electronic components, posing challenges in material formulation and processing.

Printability and Yield: The printability of silver paste for creating conductive patterns on substrates, along with considerations for inkjet or screen printing processes, ink viscosity, and drying characteristics, can impact production yield and quality control in electronics manufacturing.

Thermal Stability: Active component silver powder and paste must exhibit thermal stability and compatibility with soldering processes and high-temperature environments encountered during electronic assembly, requiring careful selection and formulation of materials.

Quality Control and Testing: Ensuring the quality, purity, and performance characteristics of active component silver powder and paste through rigorous testing, quality control measures, and material certifications is essential to meet industry standards and customer expectations.

Competitive Landscape: The competitive nature of the electronic materials market, with multiple suppliers offering silver-based formulations, poses challenges for manufacturers of active component silver powder and paste to differentiate their

products through innovation, performance enhancements, and value-added services to attract and retain customers in a competitive marketplace.

This report is a detailed and comprehensive analysis for global Active Component Silver Powder and Paste market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2024, are provided.

Key Features:

Global Active Component Silver Powder and Paste market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2019-2030

Global Active Component Silver Powder and Paste market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2019-2030

Global Active Component Silver Powder and Paste market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2019-2030

Global Active Component Silver Powder and Paste market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 2019-2024

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Active Component Silver Powder and Paste

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Active Component Silver Powder and Paste market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments.

Key companies covered as a part of this study include Shoei Chemical, Heraeus, CNMC Ningxia Orient Group, Mitsui Kinzoku, Changgui Metal Powder, Kunming Noble Metal Electronic Materials, Fukuda, Tongling Nonferrous Metals Group Holding, Ningbo Jingxin Electronic Material, Ames Goldsmith, etc.

This report also provides key insights about market drivers, restraints, opportunities,

new product launches or approvals.

Market Segmentation

Active Component Silver Powder and Paste market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

- Average Particle Size- Average Particle Size1.0?m-5.0?m
- Average Particle Size?5.0?m

Market segment by Application

- Diodes
- Integrated Circuits
- MOSFETs
- Oscillators
- Others

Major players covered

- Shoei Chemical
- Heraeus
- CNMC Ningxia Orient Group
- Mitsui Kinzoku
- Changgui Metal Powder
- Kunming Noble Metal Electronic Materials
- Fukuda
- Tongling Nonferrous Metals Group Holding
- Ningbo Jingxin Electronic Material
- Ames Goldsmith
- Shin Nihon Kakin
- Technic
- AG PRO Technology
- Jiangsu Boqian New Materials Stock
- Ling Guang

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Active Component Silver Powder and Paste product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Active Component Silver Powder and Paste, with price, sales quantity, revenue, and global market share of Active Component Silver Powder and Paste from 2019 to 2024.

Chapter 3, the Active Component Silver Powder and Paste competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Active Component Silver Powder and Paste breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2019 to 2024. and Active Component Silver Powder and Paste market forecast, by regions, by Type, and by Application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Active Component Silver Powder and Paste.

Chapter 14 and 15, to describe Active Component Silver Powder and Paste sales channel, distributors, customers, research findings and conclusion.

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