

# **Europe Silver Powder Market Size and Forecast (2021 - 2031), Global and Regional Share, Trend, and Growth Opportunity Analysis Report Coverage: By Production Method (Chemical Reduction, Electrolysis, and Vapor Deposition), Shape (Spherical, Flakes, and Irregular), Particle Size [Nanoparticles (Less than 100 nm), Submicron (100 nm to 1 micron), and Micron Scale (More than 1 micron)], Additives [Unalloyed (Pure Silver) and Silver Alloyed with Other Metals], Purity (High-Purity Silver Powder and Medium-Purity Silver Powder), and Application (Electrical and Electronics, Water Purification, Renewable Energy, Medical Devices, Jewelry and Fashion, Paints and Coatings, and Others)**

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## **Abstracts**

Europe silver powder market is expected to grow from US\$ 895.52 million in 2023 to US\$ 1,299.16 million by 2031. It is expected to grow at a CAGR of 4.8% from 2023 to 2031.

The Europe silver powder market is experiencing steady growth, driven by growing demand for photovoltaics and electronics. Europe is growing with a fast-changing semiconductor marketplace as governments worldwide increasingly adopt more restrictive policies on importing and using chips from overseas. The European

Commission passed the EU Chips Act in April 2023 with an aim to double the European Union's (EU) share in global chip production by 2030 by mobilizing US\$ 47 billion in public and private investments. The growth of consumer electronics, 5G technology, and wearable devices results in an upsurge in demand for silver powder in the electronics and semiconductors sector. The growing preference for miniaturized components further bolsters the requirement for high-purity silver powder. In the renewable energy sector, conductive pastes made out of silver powder are used in photovoltaic cells incorporated in solar panels. The push for renewable energy sources in Europe is driven by climate goals and regulations, in turn, benefitting the silver powder market.

The semiconductor industry is experiencing continuous growth owing to the ever-increasing demand for electronic devices and the surging integration of artificial intelligence, the Internet of Things (IoT), and automotive electronics. Advanced systems enabled by artificial intelligence, quantum sensors, or 5G/6G result in the rising trade of electronic chips with nodes of 5 nm, 3 nm, and above. Semiconductor technologies have evolved rapidly in the past few years, enabling the development of small, fast, and energy-efficient chips with better processing capabilities.

The conductivity of silver makes it invaluable in electronics, with applications ranging from multi-layer ceramic capacitors to silver-coated windshields. Silver powder is used in printed circuit boards (PCBs) and electrical contacts for computer keyboards. On PCBs, it is utilized for making conductive tracks. In high-performance electronics and devices that operate at high temperatures, silver powder helps in efficient heat dissipation, which improves the reliability and service life of these devices.

Based on shape, the Europe silver powder market is segmented into spherical, flakes and irregular. In 2023, spherical segment held a significant market share during the forecast period. Spherical silver powder is used in conductive inks and pastes for printed circuit boards (PCBs), electronic components, fuel cells, supercapacitors, sensors, and battery electrode components. Moreover, flakes segment is expected to register the fastest CAGR during the forecast period. Silver powder flakes offer control over ionic purity levels and physical characteristics such as morphology, aspect ratio, particle size, size distribution, and surface coatings. Silver flakes are used as an additive in conductive coatings; membrane switches; and conductive inks, rubbers, paints, and plastics.

Ames Goldsmith Corp, METALOR Technologies SA, Heraeus Electronics GmbH & Co KG, Nanoshel LLC, FENZI SpA, Johnson Matthey Plc, Technic Inc, SAFINA AS, Giusto

Manetti Battiloro SpA, and LINBRAZE Srl, are among the leading players in the Europe silver powder market. These companies are adopting mergers & acquisitions and product launches to expand their geographic presence and consumer bases.

The overall Europe silver powder market size has been derived using both primary and secondary sources. To begin the research process, exhaustive secondary research has been conducted using internal and external sources to obtain qualitative and quantitative information related to the market. Also, multiple primary interviews have been conducted with industry participants to validate the data and gain more analytical insights. Participants of this process include industry experts such as VPs, business development managers, market intelligence managers, and national sales managers—along with external consultants, including valuation experts, research analysts, and key opinion leaders—specializing in the Europe silver powder market.

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