

Global Nano-Silver Particle (?99 nm) Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Nano-Silver Particle (?99 nm) market size was valued at US\$ 107 million in 2025 and is forecast to a readjusted size of US\$ 173 million by 2032 with a CAGR of 6.0% during review period.

Nano-Silver Particle (?99 nm) is a metallic silver with a diameter less than 99 nanometers, generally between 20 and 50 nanometers. Nanosilver is a silver particle composed of an atomic structure, not a silver ion. Nanosilver is a solid powder without an electric charge. It is a metallic silver single substance processed into a metallic silver single substance with a particle diameter less than 99 nanometers by physical and chemical methods. Nanosilver is a black powder, and its products are made by mixing nanosilver into a medium or matrix in different ways. In 2025, global Nano-Silver Particle (?99 nm) production reached approximately 42.05 Tons. Nano-Silver Particle with a particle size of less than 99 nm are typically produced using chemical reduction, the polyol process, or related wet-chemical techniques. Their primary upstream raw materials include silver precursors, reducing agents, stabilizers/dispersants, reaction solvents and dispersion carriers, as well as minor amounts of pH adjusters and crystal-habit modifiers. Among these, silver nitrate is the most critical direct raw material and accounts for the largest share of production costs; reducing agents determine the rate of silver ion reduction, while stabilizers—such as PVP and citrates—influence particle size, morphology, and storage stability. Silver nitrate is explicitly designated by materials companies as the precursor for synthesizing silver nanoparticles.

Antimicrobial and material-protection requirements remain fundamental demand drivers. Silver nanoparticles exhibit broad antimicrobial activity and can be incorporated into textiles, plastics, medical dressings, filtration media, coatings and other materials

requiring microbial-growth control. Greater attention to hygiene management in healthcare, public facilities, food processing and frequently touched surfaces supports continued demand. Suppliers must, however, clearly distinguish between claims involving material preservation, odor control and disease prevention. Flexible and printed electronics create high-value growth opportunities. Silver offers excellent electrical conductivity and relatively strong oxidation resistance, making it an important conductive material for printed electronics. The development of flexible displays, wearable sensors, electronic labels, smart packaging, flexible antennas and IoT devices is expected to increase demand for nano-silver inks used in inkjet, aerosol-jet and screen printing, particularly formulations capable of producing highly conductive circuits at low processing temperatures.

Report Scope

This report is a detailed and comprehensive analysis for global Nano-Silver Particle (?99 nm) 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 2025, are provided.

Key Features:

Global Nano-Silver Particle (?99 nm) market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2021-2032

Global Nano-Silver Particle (?99 nm) market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2021-2032

Global Nano-Silver Particle (?99 nm) market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2021-2032

Global Nano-Silver Particle (?99 nm) market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/kg), 2021-2026

The Primary Objectives in This Report Are:

Global Nano-Silver Particle (?99 nm) Market 2026 by Manufacturers, Regions, Type and Application, Forecast to...

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

To assess the growth potential for Nano-Silver Particle (?99 nm)

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 Nano-Silver Particle (?99 nm) 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 DOWA Electronics, Bando Chemical, Heraeus Electronics, Daicel, Hongwu Materials Technology, Harima Chemicals Group, NovaCentrix, Nanoshel, ETEB Technology, Advanced Nano Products (ANP), etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Nano-Silver Particle (?99 nm) market is split by Type and by Application. For the period 2021-2032, 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 Segmentation

Market segment by Type

Powder

Aqueous Dispersion

Market segment by Particle Size

Particle Size 50-99nm

Particle Size less than 50nm

Market segment by Grade

Research Grade

Electronic Grade

Biomedical / Lab Grade

Industrial Grade

Market segment by Synthesis Method

Chemical Reduction

Physical Methods

Market segment by Application

Conductive Paste

Antibacterial Materials

Catalysts

Others

Major players covered

DOWA Electronics

Bando Chemical

Heraeus Electronics

Daicel

Hongwu Materials Technology

Harima Chemicals Group

NovaCentrix

Nanoshel

ETEB Technology

Advanced Nano Products (ANP)

nanoComposix

Flance (Beijing) Nanotechnology

Yamei Nano Technology

Cytodiagnostics

Shanghai Xiangtian Nanomaterials

ShareX

NanoAmor

Beike 2D Materials

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)

Chapter Outline

Chapter 1, to describe Nano-Silver Particle (?99 nm) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Nano-Silver Particle (?99 nm), with price, sales quantity, revenue, and global market share of Nano-Silver Particle (?99 nm) from 2021 to 2026.

Chapter 3, the Nano-Silver Particle (?99 nm) competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Nano-Silver Particle (?99 nm) breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021 to 2026. and Nano-Silver Particle (?99 nm) market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Nano-Silver Particle (?99 nm).

Chapter 14 and 15, to describe Nano-Silver Particle (?99 nm) sales channel,

distributors, customers, research findings and conclusion.

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