

Silver Nanoparticles Market to Grow at 15.7% CAGR Through 2031 | DataM Intelligence

New report highlights rapid growth of the market, driven by antimicrobial demand, electronics innovation and expanding applications across industries.

LOS ANGELES, CA, UNITED STATES,
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EINPresswire.com/ -- Global [Silver Nanoparticles Market](#) is expected to grow at a CAGR of 15.7% during the forecast period 2024-2031.

According to DataM Intelligence Comprehensive Report has released its latest report on the "Silver

Nanoparticles Market Size 2025," providing a detailed analysis of market trends, key growth drivers, competitive landscape, and regional insights. The report includes market size (value and volume), CAGR projections, and emerging opportunities that help businesses identify growth areas and build effective strategies. Backed by data-driven insights and future outlook, this study serves as a valuable resource for companies looking to stay competitive and capitalize on market potential.

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The silver nanoparticles market is accelerating as industries embrace nano-enabled materials for advanced electronics, antimicrobials, diagnostics, and sustainable innovations.”

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applications.

□ Wind Point Partners (a PE firm) together with Ascensus Specialties acquired Strem Chemicals,



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M&A / Strategic Moves in the AgNP Space:

□ BASF reportedly acquired Silver Nanotechnologies (March 2025) to bolster its capabilities in antimicrobial AgNP coatings for both medical devices and consumer

which is known for supplying silver nanoparticles — this strengthens chemical manufacturing from lab to large scale.

□ Nanocomposix, a well-known nanoparticle firm, has entered a distribution / partnership agreement with Pro Analyse (a laboratory-supplies distributor) to expand reach of its AgNP products in new geographies.

□ Meliorum Technologies formed a strategic R&D / co-development partnership with Advanced Nano Products, focusing on next-gen silver nanoparticle inks for printed and flexible electronics.

Notable Recent Product Launches:

□ NovaCentrix launched a new silver nanoparticle ink that lowers the sintering temperature by about 20%, making it more energy-efficient for printed electronics.

□ DOWA Electronics developed a high-dispersion nano-silver slurry optimized for 3D-printed flexible electronics.

□ Guangzhou Hongwu Materials Technology released a nano-silver solution stabilized for UV exposure, targeting antimicrobial coatings that must endure sunlight or outdoor conditions.

□ Nanoshel introduced a biosynthesized AgNP for personal-hygiene applications, with formulations that align with eco / safety standards.

Market Geographical Share:

North America holds a major share in the silver nanoparticles market, driven by strong adoption in healthcare, electronics, and antimicrobial coatings. The U.S. leads the region due to rapid expansion of nano-enabled medical devices, pharmaceuticals using nano-silver as an active ingredient, and growing demand in smart textiles and consumer electronics.

Asia-Pacific is the fastest-growing region, backed by large-scale manufacturing of electronics, rising consumer demand for antimicrobial household products, and expanding textile and coatings industries. China, Japan, South Korea, and India are key contributors due to high nano-material production capacity and supportive government initiatives for nanotech innovation.

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Market Drivers:

□ Surging Demand for Antimicrobial & Antiviral Products

Silver nanoparticles are widely used for their strong antimicrobial, antifungal, and antiviral properties, fueling demand in healthcare devices, wound dressings, sanitizers, coatings, and consumer hygiene products.

▣ Increasing Use in Electronics & Conductive Materials

Their high electrical conductivity boosts adoption in printed electronics, sensors, conductive inks, flexible displays, and microelectronics manufacturing.

▣ Growing Applications in Healthcare & Diagnostics

Nano-silver is increasingly used in imaging, drug delivery systems, medical coatings, diagnostic kits, and implantable devices due to its biocompatibility and anti-inflammatory properties.

▣ Expanding Role in Textiles & Packaging

Rising demand for odor-resistant, anti-bacterial clothing and active food packaging materials is enhancing market penetration across textile and F&B industries.

▣ Rise of Nanotechnology Research & Innovations

Universities and industries are rapidly developing advanced nano-silver formulations for catalysts, environmental purification, and agricultural uses, further accelerating market growth.

▣ Water Treatment & Environmental Applications

Their strong antimicrobial activity is driving adoption in water filters, wastewater treatment systems, and surface disinfectants in industrial and municipal settings.

Segments Covered in the Silver Nanoparticles Market:

By End User - Health Care, Food and Beverages, Textiles, Electronics and Electricals, Others

By Application – Photovoltaics, Packaging, Touchscreens, LED, Antimicrobials, Others

Regional Analysis for Silver Nanoparticles Market:

▣ North America (U.S., Canada, Mexico)

▣ Europe (U.K., Italy, Germany, Russia, France, Spain, The Netherlands and Rest of Europe)

▣ Asia-Pacific (India, Japan, China, South Korea, Australia, Indonesia Rest of Asia Pacific)

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

▣ Middle East & Africa (Saudi Arabia, U.A.E., South Africa, Rest of Middle East & Africa)

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Major Key Players: Emfutur Technologies, Nanoshel, Meliorum Technologies, Nanohorizons, Cline Scientific AB, Cima NanoTech, Applied NanoTech, Ames Goldsmith, American Elements and ANP Corporation.

□ Emfutur Technologies — Small, research-market and catalogue supplier of lab-grade silver nanoparticles and related nanomaterials; primarily a specialty/research supplier.

□ Nanoshel — Mid-tier catalogue and bulk supplier selling a wide range of AgNP powders and inks (serves R&D and some industrial/bulk customers); recognized as a visible commercial supplier but not listed among the very largest global market-share leaders in published market reports.

□ Meliorum Technologies — Specialty/custom nanomaterials manufacturer (including silver nanoparticle inks/dispersion products for printed/flexible electronics); positioned as a niche high-value supplier for electronics/printed-electronics applications rather than a mass-volume commodity player.

□ NanoHorizons (NanoHorizons Inc.) — Commercial company focused on nanosilver antimicrobial additives (SmartSilver™) with established product lines for textiles, healthcare and consumer products — a recognizable commercial player with commercial revenue and partnerships (noted in industry lists of key players).

□ Cline Scientific AB — A life-science / regenerative-medicine company using proprietary surface/nanotechnology for cell-based products; its activity implies a specialist, application-specific role in AgNP/nano-surface tech rather than a large commodity silver-nanoparticle volume supplier.

□ Cima NanoTech — Developer of silver nanoparticle-based conductive inks and self-assembling nanoparticle coatings (SANTE®); positioned as a technology-led supplier for electronics/transparent conductive coatings a specialist tech vendor rather than a bulk-commodity market leader.

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