

# Global SERS Substrate Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GC2FAF460BBFEN.html>

Date: January 2026

Pages: 101

Price: US\$ 4,480.00 (Single User License)

ID: GC2FAF460BBFEN

## Abstracts

The global SERS Substrate market size is expected to reach \$ 11.01 million by 2032, rising at a market growth of 3.7% CAGR during the forecast period (2026-2032).

In 2024, global SERS Substrate reached approximately 294 thousand units, with an average global market price of around US\$ 27 per unit. The Surface-Enhanced Raman Spectroscopy (SERS) substrates enhances the Raman scattering light from molecules, making high-sensitive Raman spectroscopic analysis possible. Typical Surface-Enhanced Raman Spectroscopy (SERS) Substrates are roughened silver/copper/gold surfaces. The SERS technique requires adsorption of the analyte molecules onto the Surface-Enhanced Raman Spectroscopy (SERS) Substrate. The gross profit margin for SERS substrates is typically ranging from 25% to 40%. The annual capacity for a single SERS substrate production line can realistically range from 10000 units to 20000 units.

The SERS (Surface-Enhanced Raman Spectroscopy) substrate market is experiencing significant growth driven by the increasing demand for ultra-sensitive molecular detection across multiple industries, including biomedical diagnostics, pharmaceuticals, food safety, environmental monitoring, and chemical analysis. Advances in nanofabrication technologies and materials science have enabled the production of reproducible, high-performance plasmonic substrates, such as gold and silver nanoparticles, nanostructured films, and lithographically patterned surfaces, which are critical for achieving strong signal enhancement and measurement reliability. The rising adoption of portable and point-of-care SERS devices further fuels the need for cost-effective, scalable substrates suitable for on-site applications. Additionally, stringent regulatory requirements for contaminant detection and growing research in single-molecule sensing are expanding the commercial potential of SERS substrates. Despite challenges related to substrate uniformity, stability, and large-scale manufacturing,

ongoing innovations and increasing availability of ready-to-use commercial substrates are expected to sustain robust market growth in the coming years. The SERS (Surface-Enhanced Raman Spectroscopy) substrate market is witnessing rapid growth due to the increasing demand for highly sensitive molecular detection across multiple industries, including biomedical diagnostics, pharmaceuticals, food safety, environmental monitoring, and chemical analysis. Advances in nanofabrication and materials science have enabled the production of high-performance, reproducible plasmonic substrates, such as gold and silver nanoparticles, nanostructured films, and lithographically patterned surfaces, which are critical for achieving strong signal enhancement and reliable measurements. The adoption of portable and point-of-care SERS devices has further driven the demand for cost-effective, scalable substrates suitable for on-site applications. Regulatory requirements for contaminant detection and growing research in single-molecule sensing also expand the commercial potential of SERS substrates. Despite challenges related to substrate uniformity, stability, and large-scale manufacturing, continuous innovations and the increasing availability of ready-to-use commercial substrates are expected to sustain robust market growth over the coming years. The SERS (Surface-Enhanced Raman Spectroscopy) substrate industry chain comprises multiple stages, from raw material supply to end-user applications. At the upstream level, high-purity noble metals such as gold, silver, and copper, as well as advanced nanomaterials and chemicals, serve as the primary raw materials. The midstream segment focuses on substrate fabrication, including nanostructure design, lithography, chemical synthesis, nanoparticle assembly, and surface functionalization, which determine the enhancement performance, reproducibility, and stability of the substrates. Key players in this segment are specialized nanofabrication companies and research-focused startups that develop innovative, high-performance substrates. Downstream, SERS substrates are integrated into analytical instruments or sold as standalone consumables for applications in biomedical diagnostics, pharmaceuticals, food safety testing, environmental monitoring, and chemical analysis. Supporting services such as quality control, surface characterization, and software for data interpretation also play a critical role in ensuring product reliability. The industry chain is increasingly influenced by technological innovations, scalability considerations, and regulatory standards, with collaboration between raw material suppliers, substrate manufacturers, instrument makers, and end-users driving overall market growth. The SERS (Surface-Enhanced Raman Spectroscopy) substrate industry chain comprises multiple stages, from raw material supply to end-user applications. At the upstream level, high-purity noble metals such as gold, silver, and copper, as well as advanced nanomaterials and chemicals, serve as the primary raw materials. The midstream segment focuses on substrate fabrication, including nanostructure design, lithography, chemical synthesis, nanoparticle assembly, and surface functionalization, which

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This report studies the global SERS Substrate production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for SERS Substrate and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of SERS Substrate that contribute to

its increasing demand across many markets.

### **Highlights and key features of the study**

Global SERS Substrate total production and demand, 2021-2032, (Units)

Global SERS Substrate total production value, 2021-2032, (USD Million)

Global SERS Substrate production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global SERS Substrate consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: SERS Substrate domestic production, consumption, key domestic manufacturers and share

Global SERS Substrate production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global SERS Substrate production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global SERS Substrate production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global SERS Substrate market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include HORIBA, Ocean Insight, Hamamatsu Photonics, Ato ID, Silmeco, Metrohm, Enhanced Spectrometry, StellarNet, Advanced Plasmon Technologies, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World SERS Substrate market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global SERS Substrate Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global SERS Substrate Market, Segmentation by Type:

Gold

Silver

Other

#### Global SERS Substrate Market, Segmentation by Carbendazim Molecules:

Below 100 nM

Above 100 nM

#### Global SERS Substrate Market, Segmentation by Channel:

Online

Offline

## Global SERS Substrate Market, Segmentation by Application:

Biology & Medicine

Chemical Industry

Food Industry

Other

## Companies Profiled:

HORIBA

Ocean Insight

Hamamatsu Photonics

Ato ID

Silmeco

Metrohm

Enhanced Spectrometry

StellarNet

Advanced Plasmon Technologies

## Key Questions Answered:

1. How big is the global SERS Substrate market?
2. What is the demand of the global SERS Substrate market?
3. What is the year over year growth of the global SERS Substrate market?
4. What is the production and production value of the global SERS Substrate market?
5. Who are the key producers in the global SERS Substrate market?
6. What are the growth factors driving the market demand?

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