

Global Sterile Vial Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Sterile Vial market size is expected to reach \$ 4571 million by 2032, rising at a market growth of 6.5% CAGR during the forecast period (2026-2032).

Sterile Vial refer to medicinal glass bottles that have undergone strict cleaning, sterilization, and aseptic packaging treatment. They are mainly used to contain drugs such as injections, vaccines, biologics, and freeze-dried powder injections that require a highly sterile environment. This product is usually made of medicinal glass material and undergoes molding, cleaning, de heating, and sterilization processes in a clean production environment, so that the bottle body can be directly used for aseptic filling at the factory. Aseptic penicillin bottles can effectively ensure the stability, safety, and sealing of drugs during storage and transportation, and are one of the important primary packaging containers in modern pharmaceutical industry and biopharmaceutical field. In 2025, global Sterile Vial production reached approximately 7,369 M Units, with an average global market price of around US\$ 385 per k unit.

The overall market for sterile vial is showing a stable growth trend, mainly driven by the rapidly expanding demand for biopharmaceuticals, vaccines, and injections. With the continuous increase in global production of injectable drugs and vaccines, the demand for sterile packaging containers has significantly increased, especially in the fields of biologics and high value-added drugs, where sterile vial remain one of the most important packaging forms. At the same time, pharmaceutical companies' increasing requirements for safety and stability have prompted the industry to upgrade towards high-purity borosilicate glass, low precipitation materials, and ready to use sterile penicillin bottles.

From the perspective of technological development trends, the industry is gradually

shifting from traditional glass bottle supply to an integrated service model of 'materials+sterile processing+filling solutions'. The demand for ready to use sterile vial and high specification coated penicillin bottles is growing significantly. These products can reduce pollution risks and improve filling efficiency, thus having higher added value. At the same time, small capacity penicillin bottles and multi dose penicillin bottles are widely used in the fields of vaccines and biopharmaceuticals, becoming important growth directions in the future.

From the perspective of competitive landscape and industry changes, glass is still the mainstream material, but alternative solutions such as polymer vials are gradually entering some application scenarios, creating certain competitive pressure on traditional products. The focus of future market development will be on high-end materials, automated sterile production capabilities, and global supply chain layout, especially in the Asia Pacific region and emerging pharmaceutical markets. Capacity expansion and localized production will become important trends in the industry.

This report studies the global Sterile Vial production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Sterile Vial 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 Sterile Vial that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Sterile Vial total production and demand, 2021-2032, (M Units)

Global Sterile Vial total production value, 2021-2032, (USD Million)

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

Global Sterile Vial consumption by region & country, CAGR, 2021-2032 & (M Units)

U.S. VS China: Sterile Vial domestic production, consumption, key domestic manufacturers and share

Global Sterile Vial production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (M Units)

Global Sterile Vial production by Type, production, value, CAGR, 2021-2032, (USD Million) & (M Units)

Global Sterile Vial production by Application, production, value, CAGR, 2021-2032, (USD Million) & (M Units)

This report profiles key players in the global Sterile Vial 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 SGD Pharma, Gerresheimer AG, SCHOTT Pharma, Stevanato Group, Corning, Nipro Corporation, Daikyo Seiko, West Pharmaceutical, DWK Life Sciences, Radpharm Scientific, 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 Sterile Vial market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (M Units) and average price (US\$/K 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 Sterile Vial Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Sterile Vial Market, Segmentation by Type:

Transparent Vial

Amber Vial

Global Sterile Vial Market, Segmentation by Manufacturing Process:

Controlled Glass Vial

Molded Glass Vial

Global Sterile Vial Market, Segmentation by Sealing Type:

Bayonet Vial

Threaded Vial

Other

Global Sterile Vial Market, Segmentation by Application:

Oral Liquid Packaging

Injection Packaging

Freeze Dried Powder Packaging

Others

Companies Profiled:

SGD Pharma

Gerresheimer AG

SCHOTT Pharma

Stevanato Group

Corning

Nipro Corporation

Daikyo Seiko

West Pharmaceutical

DWK Life Sciences

Radpharm Scientific

Pacific Vial Manufacturing

Ningbo Zhengli Pharmaceutical Packaging

Linuo Pharmaceutical Packaging

Nantong Xinde Medical Packaging Materials

Shandong Pharmaceutical Glass

CANGZHOU FOUR STARS GLASS

WEGO Group

Chongqing Zhengchuan Pharmaceutical Packaging

Jiyuan Zhengyu Industrial

Jiangsu Huayi Technology

Key Questions Answered:

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

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