

# Vial Box Market Forecasts to 2030 – Global Analysis By Product (Single Vial Boxes, Multi-Vial Boxes, Specialty Vial Boxes and Other Products), Material, Design, Application, End User and By Geography

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## Abstracts

According to Statistics MRC, the Global Vial Box Market is accounted for \$2.52 billion in 2024 and is expected to reach \$4.73 billion by 2030 growing at a CAGR of 7.8% during the forecast period. A vial box is a container designed to store and protect vials, which are small bottles typically used to hold liquids or pharmaceuticals. These boxes are often made of durable materials such as cardboard, plastic, or wood, and are designed to keep vials organized and secure. Vial boxes are commonly used in the medical field for the safe storage and transport of substances. They may have compartments or cushioning to prevent breakage and contamination, ensuring the integrity of the vials inside.

According to the National Cancer Institute reports in 2020, around 1.8 million new cancer cases were diagnosed in the USA that rose the sales of pemetrexed in 100mg/vial, 500 mg/vial, and 1000 mg/vial, and single-dose vials for injection.

Market Dynamics:

Driver:

Rising demand for organized packaging

Rising demand for organized packaging plays a crucial role in addressing the need for efficient storage, transportation, and protection of pharmaceutical products. As the healthcare and pharmaceutical sectors expand, particularly with the increase in

biologics, vaccines, and medicines, organized packaging ensures the safe handling of delicate vials. Vial boxes provide structured storage, preventing breakage, contamination, and mix-ups, which are essential for maintaining product integrity. Additionally, they support efficient inventory management, ease of access, and regulatory compliance, accelerates the market demand.

Restraint:

Fluctuating raw material prices

Fluctuating raw material prices in the vial box market arise from factors such as supply chain disruptions, geopolitical tensions, and shifts in demand for packaging materials. Key materials like cardboard, plastic, and other packaging components experience price volatility due to changes in global markets, fuel costs, and production limitations. These fluctuations can lead to increased production costs for vial box manufacturers. Consequently, higher costs may be passed on to consumers, limiting affordability and hindering market growth.

Opportunity:

Expansion of online pharmaceutical product sales

As e-commerce platforms grow, the demand for secure, reliable, and well-organized packaging for the transportation of medications, vaccines, and other health-related products rises. Vial boxes, especially those designed for temperature-sensitive items, offer a safe solution during transit. With consumers increasingly purchasing pharmaceuticals online, companies need packaging that ensures product integrity, compliance with regulations, and prevents damage during shipping, thus driving the demand for high-quality vial boxes in the market.

Threat:

Competition from alternative packaging solutions

Alternative packaging solutions to vial boxes include plastic containers, glass bottles, blister packs, and flexible pouches. These options may offer benefits such as lower costs, lighter weight, and convenience in certain applications. For instance, plastic containers are often more durable and cost-effective than vial boxes, while blister packs are more space-efficient. Competition from these alternatives can hamper the vial box

market's growth by offering more affordable and practical solutions, especially in markets with price-sensitive consumers.

#### Covid-19 Impact:

The covid-19 pandemic significantly impacted the vial box market by increasing demand for secure packaging solutions, particularly for vaccines and pharmaceutical products. The surge in vaccine distribution and the need for temperature-controlled packaging drove the market's growth. However, supply chain disruptions, raw material shortages, and increased production costs posed challenges. On the positive side, the pandemic highlighted the importance of reliable vial packaging for healthcare, creating long-term opportunities for innovation and expansion in the vial box market.

The storage & organization segment is expected to be the largest during the forecast period

The storage & organization segment is expected to account for the largest market share during the forecast period. Vial boxes streamline sample identification with labeled compartments, making them essential for systematic storage and easy retrieval. It ensures safe handling, minimizes contamination, and provides efficient inventory management. These boxes are often made from plastic, cardboard, or polypropylene, with secure lids and dividers to prevent spills or breakage. Some feature cryogenic compatibility for ultra-low temperatures.

The pharmaceutical industry segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the pharmaceutical industry segment is predicted to witness the highest growth rate. A vial box in the pharmaceuticals is designed to store, transport, and protect vials containing liquid or powdered medications, vaccines, or biological samples. It ensures product safety, sterility, and protection from contamination, moisture, and physical damage. They also support compliance with regulatory standards by providing proper labeling, serialization, and tamper-evident features, ensuring secure and efficient pharmaceutical distribution.

#### Region with largest share:

During the forecast period, the Asia Pacific region is expected to hold the largest market share, due to the rising demand for healthcare and pharmaceutical products, especially

in emerging economies like China and India. The region's growing pharmaceutical manufacturing and export activities have fuelled the need for secure and organized vial packaging solutions. Additionally, increasing healthcare investments, government initiatives to improve medical infrastructure, and the growing prevalence of chronic diseases contribute to market expansion.

Region with highest CAGR:

Over the forecast period, the North America region is anticipated to exhibit the highest CAGR, driven by the robust pharmaceutical industry and advanced healthcare infrastructure. The increasing demand for secure packaging for vaccines, biologics, and medications, particularly after the covid-19 pandemic, has expanded the market. Strong regulatory frameworks and a focus on safety and compliance further boost the market's demand. Additionally, the region's emphasis on sustainable packaging solutions and advancements in eco-friendly materials are shaping the market.

Key players in the market

Some of the key players in Vial Box market include Thermo Fisher Scientific, PPD&G, Merck KGaA, ZEE Packaging, CCL Healthcare, Corning Incorporated, Fuji Seal International, Inc., Becton, Dickinson and Company, Gerresheimer, SGD Pharma, AptarGroup, Schott Pharma, Adelphi Healthcare Packaging, MicroSolv Technology Corporation and DWK Life Sciences.

Key Developments:

In February 2024, SGD Pharma introduced a new range of Type I tubular vials featuring Corning's Velocity Vial coating. This innovative coating reduces friction during the fill and finish process, enhancing vial quality and improving manufacturing efficiency. The collaboration between SGD Pharma and Corning aims to optimize global delivery of injectable treatments by minimizing glass particulate emissions and reducing the risk of vial damage.

In January 2024, Schott Pharma has revealed its Everic freeze vials, designed for ultra-cold storage of mRNA and gene therapy drugs. These vials can withstand temperatures as low as -80°C, preventing glass breakage common in standard vials during freezing and thawing. Through scientific testing with eight variants, Schott Pharma found a 0% failure rate for all configurations, showing that CCI can be maintained for all combinations within ISO dimensions.

**Products Covered:**

Single Vial Boxes

Multi-Vial Boxes

Specialty Vial Boxes

Other Products

**Materials Covered:**

Cardboard

Plastic

Corrugated Fiberboard

Wooden

Metal

Other Materials

**Designs Covered:**

Standard Boxes

Custom-Printed Boxes

Luxury Vial Boxes

Other Designs

**Applications Covered:**

Shipping & Distribution

Storage & Organization

Display

Other Applications

End Users Covered:

Pharmaceutical Industry

Cosmetics & Personal Care

Chemical Industry

Food & Beverage Sector

Research & Laboratories

Other End Users

Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:

- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2022, 2023, 2024, 2026, and 2030
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

#### Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

#### Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

#### Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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