

Nasal Spray Packaging Market Forecasts to 2030 – Global Analysis By Container Type (Pressurized Containers and Pump Bottles), Material, Drug Type, Dosage Form, Application, End User and By Geography

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Abstracts

According to Statistics MRC, the Global Nasal Spray Packaging Market is accounted for \$1691.8 million in 2024 and is expected to reach \$2567.5 million by 2030 growing at a CAGR of 7.2% during the forecast period. Specialized containers and delivery systems intended to store and distribute liquid drugs or solutions via the nasal route are referred to as nasal spray packaging. It consists of bottles and pumps composed of metal, glass, or plastic. These package options improve user ease while guaranteeing accurate dosage, sterility, and contamination protection. In both medical and over-the-counter applications, they are extensively utilized for medications, decongestants, allergy alleviation, and other nasal therapies.

According to the American Academy of Allergy, Asthma & Immunology (AAAAI), the global prevalence of allergic rhinitis is estimated to be between 10% and 30% of the population.

Market Dynamics:

Driver:

Rising prevalence of respiratory diseases

The increasing prevalence of respiratory diseases such as allergic rhinitis, chronic sinusitis, and asthma is a significant driver for the nasal spray packaging market.

According to health organizations, conditions like allergic rhinitis have become increasingly common worldwide, creating a substantial demand for effective and convenient treatment options. Nasal sprays offer direct and efficient medication delivery to affected areas, providing quick relief and improving patient compliance. Additionally, the aging population, which is more susceptible to respiratory conditions, further expands the consumer base.

Restraint:

High cost of advanced packaging materials

Compliance with stringent regulatory standards established by bodies such as the FDA and EMA requires substantial investment in research, development, and quality assurance, which can be particularly burdensome for smaller manufacturers. Additionally, innovative materials like specialized plastics, glass with specific coatings, and smart packaging components come at premium prices, limiting their adoption, especially in price-sensitive markets. The financial burden of implementing these advanced solutions can restrict market growth.

Opportunity:

Growing demand for non-invasive drug delivery

The growing preference for non-invasive drug delivery methods presents a significant opportunity for the nasal spray packaging market. Oral medications pose challenges for patients with swallowing difficulties, particularly among older populations where dysphagia affects people over 50 years of age. Nasal sprays offer a painless, easy-to-use solution that bypasses these challenges, improving patient compliance and treatment outcomes. This shift in preference is accelerating the adoption and development of nasal drug delivery systems, creating substantial growth opportunities for packaging manufacturers.

Threat:

Counterfeit and substandard products

The proliferation of counterfeit and substandard nasal spray products poses a significant threat to the nasal spray packaging market. These fake products not only result in financial losses for legitimate manufacturers but also present serious health

risks to consumers, including allergic reactions, nausea, and vomiting. Despite advancements in anti-counterfeiting technologies such as induction seals, NFC tags, nano barcodes, serialization, and blockchain solutions, counterfeiters typically find ways to bypass these systems within two to three years. This necessitates frequent and costly upgrades for pharmaceutical packaging companies, creating an ongoing challenge that requires continuous innovation and investment to maintain product integrity and consumer safety.

Covid-19 Impact:

The COVID-19 pandemic had mixed effects on the nasal spray packaging market. Initially, it slowed innovations as focus shifted to vaccine development. However, the emergence of new virus strains and respiratory symptoms associated with COVID-19 created renewed interest in nasal spray products. Pharmaceutical companies began developing antiviral nasal sprays, with some showing promising results in reducing viral load. This trend created business opportunities for packaging manufacturers, who collaborated with healthcare companies to develop safe, sterile packaging solutions that wouldn't interfere with formulations. The pandemic ultimately accelerated demand for nasal spray products and their packaging.

The pump bottles segment is expected to be the largest during the forecast period

The pump bottles segment is expected to account for the largest market share during the forecast period due to their economic price point and wide drug usage compatibility. These containers offer precise dosage control, convenience for patients, and suitability for non-pressurized nasal spray formulations. Their popularity stems from their user-friendly design, ability to deliver consistent doses, and compatibility with various drug formulations, including saline, steroid, and antihistamine nasal sprays. This segment's growth is further supported by increasing consumer preference for easy-to-use medication delivery systems.

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

Over the forecast period, the powder segment is predicted to witness the highest growth rate due to significant advancements in powder nasal delivery technologies. Companies like Hovione have expanded their capabilities by introducing innovative powder delivery devices that enhance the efficacy of intranasal treatments. Powder formulations offer several advantages over liquid sprays, including better stability, longer shelf life, and potentially improved drug absorption. Additionally, the development of COVID-19

vaccines utilizing nasal powder delivery systems has accelerated research and investment in this segment.

Region with largest share:

During the forecast period, the North America region is expected to hold the largest market share in the nasal spray packaging market. This dominance is attributed to the high prevalence of respiratory diseases, advanced healthcare infrastructure, and strong presence of major pharmaceutical companies. North America's leadership is further strengthened by stringent regulatory standards, high consumer awareness, and significant investment in pharmaceutical packaging innovations.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR in the nasal spray packaging market driven by several factors, including the region's expanding healthcare sector, increasing prevalence of respiratory diseases, and rising disposable incomes in countries like China, India, and Japan. The large population base, coupled with growing awareness about the benefits of nasal sprays and improving access to healthcare services, presents significant growth opportunities. Additionally, technological innovations in drug discovery and increased government funding for healthcare infrastructure development are contributing to the region's accelerated growth.

Key players in the market

Some of the key players in Nasal Spray Packaging Market include AptarGroup, Gerresheimer, Berry Global, Amcor, Bormioli Pharma, SGD Pharma, West Pharmaceutical, Coster Technologie, Nolato, Silgan Dispensing, Weener Plastics, Nemera, Medspray, Aero Pump, URSATEC and Richmond Containers.

Key Developments:

In March 2024, Bormioli Pharma, a leading international manufacturer of pharmaceutical packaging and medical devices, today announced a significant increase of 47% in its North American sales for 2023. This notable growth is a direct result of the company's rapidly evolving infrastructure and expanded capacity, tailored to meet the unique demands of the North American pharmaceutical market, including an increased need for pharmaceutical glass vials.

In June 2023, Corning Incorporated and SGD Pharma announced a joint venture that includes the opening of a new glass tubing facility to expand pharmaceutical manufacturing in India and allows SGD Pharma to adopt Corning's Velocity® Vial technology platform. Combining SGD Pharma's vial-converting expertise with Corning's proprietary glass-coating technology, the collaboration will enhance vial quality, improve filling-line productivity, and speed the global delivery of injectable treatments.

In January 2023, Aptar Pharma, part of AptarGroup, Inc. a global leader in drug delivery systems, services and active material science solutions, today announces the launch of APF Futurity, its first metal-free, multidose nasal spray pump developed to deliver nasal saline and other comparable over-the-counter (OTC) formulations.

Container Types Covered:

Pressurized Containers

Pump Bottles

Materials Covered:

Glass

Plastic

Aluminum

Composite Materials

Drug Type Covered:

Liquid

Powder

Dosage Forms Covered:

Single-Dose

Bi-Dose

Multi-Dose

Applications Covered:

Pharmaceutical & Medical

Personal Care

Over-the-Counter Products

End Users Covered:

Hospitals & Clinics

Retail Pharmacies

Online & Direct-to-Consumer Sales

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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Note: Tables for North America, Europe, APAC, South America, and Middle East & Africa Regions are also represented in the same manner as above.

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