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Europe Pharmaceutical Cold Chain Logistics Market By Product, Temperature Type and Mode of Transportation: Country Opportunity Analysis and Industry Forecast, 2023 – 2032

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Abstracts

The Europe pharmaceutical cold chain logistics market size was esteemed at $6,700.00 million in 2022 and is estimated t%li%reach $12,307.51 million by 2032, exhibiting a CAGR of 6.5% from 2023 t%li%2032.

A cold chain is a fundamental part of pharma shipments and transits. It is often considered a temperature-controlled supply system used t%li%store and transport perishable products, such as vaccines, biologics, and drugs. This chain must preserve a particular temperature range, often between 2°C and 8°C, t%li%preserve the safety, potency, and efficacy of pharmaceutical products through the entire supply chain, from manufacturing and storage t%li%transportation and distribution. Aside from directing processes, manufacturers, distributors, and healthcare providers benefit from technological innovations and developments t%li%preserve the quality and integrity of pharmaceutical products and, consequently, ensure the safety of the consumers in need.

The integration of radiofrequency identification technology (RFID), AI, and blockchain technology in pharmaceutical cold-chain logistics is expected t%li%revolutionize the cold-chain logistics industry, making it more efficient and secure. RFID system for cold chain applications consists of a reader, a tag, and a sensor that communicate with one another via radi%li%transmission. If they have the right sensor and enough power, RFID tags can store a finite number of temperature measurements in addition t%li%an electronic product code (EPC) for logistics management purposes.

In addition, RFID technologies improve the performance of perishable supply chains through the device t%li%track the geographical position of individual packages, pallets, shipping containers, or trucks, which can be stationary or in movement during distribution. These technologies are used t%li%identify items through a unique EPC or other barcode and t%li%store real-time environmental data (including temperature), which is later transmitted, allowing corrective actions t%li%be taken before products are irrevocably damaged. The technology provides manufacturers the transparency in tracing and protecting throughout the product supply chain.

Rise in several refrigerated warehouses and expansion of the pharmaceutical sector, along with the government policies and initiatives t%li%promote cold chain logistics is expected t%li%drive the growth of the pharmaceutical cold chain logistics market. In addition, the constant development of machines and medicines due t%li%the rising number of approvals for pharmaceutical products in Europe fuels the growth of the aftermarket shock absorbers market. On the contrary, the rise in the number of products and services, from vaccines t%li%cell and gene therapies, requires cold chain handling and refrigerated warehouses are projected t%li%offer lucrative opportunities for the expansion of the market during the forecast period.

However, there is a concern about the high cost required for maintaining cold chain logistics, such as refrigerated storage facilities and transportation systems that poses a considerable challenge t%li%the growth of the market. This cost can act as a barrier for smaller pharmaceutical companies or those operating in developing regions. Further, temperature excursions or disruptions in the cold chain may result in the loss of valuable pharmaceutical products. This risk is especially significant for temperature-sensitive medications, vaccines, and biologics, leading t%li%financial losses and potential reputational damage for pharmaceutical companies. This is expected t%li%hamper the growth of Europe's pharmaceutical cold chain logistics market.

The European pharmaceutical cold chain logistics market is segmented int%li%product, temperature type, mode of transportation, and region.

Product

Vaccines,

Biologics,

Specialty Medications

Others.

Type,

Chilled

Frozen

Room Temperature

Mode Of Transportation

Railways

Airways

Roadways

Waterways.

Country

France

Germany

Italy

Spain

UK

Switzerland

Ireland

The Rest of Europe.

Key players covered in the report

A.P. Moller–Maersk

DB Schenker

DHL Group

DSV

Geodis

H. Essers

Kuehne + Nagel

Movianto

Sovereign

VTS Transport & Logistics.

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