Antimony-Based and Antimony-Free Catalyst for Polyester Market Research Report by Type (Antimony Trioxide, Antimony Triacetate, Antimony Glycolate, Others), by Application [Polyethylene Terephthalate (PET) (Fibers, Bottles and Containers, Films and Sheets, Others), Polybutylene Terephthalate (PBT) (Automotive Parts, Electrical and Electronics, Industrial & Mechanical Equipment) Others], by End-Use Industry (Textile, Packaging, Automotive, Electrical & Electronics, Industrial Machinery, Consumer Goods, Medical & Healthcare, Building & Construction, Others), and by Region (North America, Europe, Asia-Pacific, South America, Middle East & Africa) Forecast till 2032

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Market Overview

The Antimony-Based Polyester Market recorded USD 493,284.8 thousand in revenue in 2023 and is projected to grow at a CAGR of 4.5% from 2024 to 2032. The Antimony-Free Catalyst for Polyester Market generated USD 177,285.4 thousand in revenue in 2023 and is projected to grow at a CAGR of 6.7% from 2024 to 2032. Antimony-based as well as antimony-free materials are catalysts that provoke the chemical reactions in the process of polyester manufacture. For being characterized by high efficiency, low per-unit costs, and the capacity to produce high-quality polyesters with stable physical and chemical properties, antimony-based catalysts, such as antimony trioxide, are in the leading positions in their application.

The global polyester industry is very dependent upon catalysts to achieve efficient polymerization and is not very well balanced strictly on the basis of the available performance data. Antimony trioxide, responsible for the main advantages of the kinds of catalysts regarded, is used as the best alternative in almost every field of application, as well as in research where classical and modern problems of new material synthesis are explored. Polyester products like textiles or PET packaging especially need every physical/chemical aspect of polymers, molecular weight control, and intrinsic viscosity to be regulated, and basic molecular investigations are necessary for that goal.

Most popular ways of oxides preparation for this matter are antimony trioxide, antimony acetate, and antimony glycol oxime, which assure short reaction times and high yields in an instance of both the PTA and DMT routes, respectively. Moreover, their capacity to fit a large-scale industrial process as well as deliver better mechanical and optical properties to end-users makes them truly the top choice among manufacturers.

In the current days, the thorough investigations that detect the presence of heavy metal species residues in PET packaging, like water bottles and food jars, have caused stringent regulations to be established. Apart from that, numerous concerns about leaching and toxicity have arisen. Apart from the tenets of the EU, the U.S., and WHO guidelines, a demand for titanium- and germanium-based analogs has resulted. Another factor that leads to instability in the market is the supply chain that depends on China, the country where, despite the production decrease, almost half of the global antimony production still comes from.

Market Segmentations

The global antimony-based catalyst for the polyester market is divided by types, comprising antimony triacetate, antimony glycolate, antimony trioxide, and others. Conversely, the antimony-free catalyst for the polyester market is segmented into titanium-based catalysts, germanium-based catalysts, aluminum-based catalysts, zirconium-based catalysts, phosphorus-based catalysts, organic catalysts, and others.

Polyethylene terephthalate (PET), polybutylene terephthalate (PBT), and others are part of the application of the global antimony-based and antimony-free catalyst for polyester market. PET is further segmented into fibres, bottles and containers, and others, while PBT is also divided into automotive parts, electrical and electronics, industrial & mechanical equipment.

Depending on the end-use industry, the global market is classified into textile, packaging, automotive, electrical & electronics, industrial machinery, consumer goods, medical & healthcare, building & construction, and others.

Regional Insights

In North America, the use of polyester catalysts is primarily associated with the packaging, automotive, and construction industries, where the demand is high. The U.S. and Canada are the two largest PET consumers, with a trend towards the use of recycled materials. Car manufacturers use polyester composites more and more in order to meet the standards of performance and efficiency. The construction sector also profits from the use of polyester in the form of insulation and coatings in energy-saving designs.

The Europe market is characterized by high levels of development and is largely based on sustainability. This has resulted in very strict rules for the selection of the catalyst. Packaging remains one of the main areas of concern; with the increasing use of recycled PET for food and beverage, this area will only grow. The textile industry is turning to eco-friendly polyester, which consequently gives alternative catalysts the opportunity to make a breakthrough. The demand for composites in the automotive industry is essential to lightweighting, and therefore, high-performance composites are needed.

The Asia Pacific region is a major player in the global market as far as the production of polyester is concerned, and its position is strengthened by China's big factory base and India's textile sector that is growing fast. The packaging industry is taking off rapidly

in the region, primarily in the beverage and consumer goods sectors. The middle class in this area is getting bigger and bigger means that more and more people will buy apparel, electronics, and other home goods made of polyester. Recycling is also on its way; however, antimony-based catalysts are still the dominant ones.
The development of polyester market in South America is essentially the trend in packaging, with Brazil as the primary contributor. The beverage industry is one of the main reasons for the rising consumption of PET bottles and containers. Polyester fibers are widely used in the region's apparel production. Automotive and construction sectors are adding to demand for polyester composites.
MEA's polyester demand is closely linked to the packaging, textiles, and infrastructure sectors. Regions such as Saudi Arabia, the UAE, and Egypt are major users. With the rise of retail and e-commerce, PET packaging is becoming on. Besides that, the market is being supported by textiles in the North African region, and composites in automotive and construction are also supporting the market.

Major Players
Key players in the global antimony-based and antimony-free catalyst for polyester market are Dorf Ketal, Zhejiang Lixing Technology Co., Ltd., FUJIFILM Wako Pure Chemical Corporation, SAKAI CHEMICAL INDUSTRY CO. LTD., Borica Co., Ltd., Mitsubishi Chemical Group, Yiyang City Huachang Antimony Industry Co., Ltd., AMG Antimony SICA, Suzuhiro Chemical Co., Ltd., Matrix (Guangzhou) Metamaterials Co., Ltd., Toyobo, Alfa Chemistry, Campine, Nihon Seiko Co., Ltd., Catalynt, W.R. Grace & Co., American Elements, and Tosoh Corporation.

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