

Antimony-free Polyesters Market by Product Type (Polyethylene Terephthalate (PET), Polytrimethylene Terephthalate (PTT), Polybutylene Terephthalate (PBT)), Catalyst (Titanium-based Catalyst, Aluminum-based Catalyst, Titanium-Magnesium-based Catalyst), End-use Industry (Textile, Packaging, Automotive, Construction), & Region - Global Forecast to 2030

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Abstracts

The antimony-free polyesters market size is projected to grow from USD 0.78 billion in 2025 to USD 1.07 billion by 2030, registering a CAGR of 6.6% during the forecast period.

The demand for antimony-free polyesters has increased due to health and environmental concerns related to traditional antimony-based catalysts, which can leave toxic residues in the final products. Manufacturers are actively seeking alternatives in response to regulatory pressures from North America and Europe, as well as the growing use of polyester in food packaging, textiles, medical devices, and other applications that prioritize non-toxicity and sustainability. Antimony-free polyesters offer a greater degree of recyclability and support global sustainability initiatives. As consumer awareness grows and brands increasingly align themselves with eco-friendly products, the demand for antimony-free polyesters is expected to rise across various industries, including packaging, textiles, automotive, and electronics.

“Polytrimethylene terephthalate (PTT) segment is projected to register the fastest growth in the antimony-free polyesters market, in terms of value, during the forecast period.”

Polytrimethylene terephthalate (PTT) is rapidly becoming the fastest-growing segment in the antimony-free polyester market due to its increasing use in high-performance and sustainable textile applications. PTT offers several key advantages, including excellent elasticity, a soft texture, and vibrant dyeability, making it ideal for carpets, sportswear, and home textiles. As consumer demand for softer, longer-lasting, and visually appealing fabrics rises, manufacturers are turning to PTT to meet these needs. This growth is also fueled by advancements in fiber processing technologies, which have enhanced the cost-effectiveness and efficiency of PTT production. Furthermore, with a growing regulatory focus on eliminating toxic materials like antimony from manufacturing processes, PTT is now being produced on a larger scale using safer catalysts, such as titanium-based systems.

“The titanium-based catalysts segment is projected to register the fastest growth in the antimony-free polyesters market, in terms of value, during the forecast period.”

Titanium-based catalysts are the fastest-growing segment of the antimony-free polyesters market due to their safety, efficiency, and compatibility with current manufacturing practices. With increasing concerns about the toxicity of antimony—especially in applications like textiles and food packaging—industries are rapidly shifting toward non-toxic catalysts. Titanium-based catalysts are particularly favored because they do not present health or environmental risks. They offer high thermal stability and maintain polymer clarity. Additionally, they facilitate smoother processing and ensure high product quality, which is essential for producing clear bottles, high-performance fibers, and medical-grade materials. Unlike other catalysts, titanium catalysts can be easily integrated into existing production lines with minimal modifications, making them an economical choice for manufacturers.

“Packaging segment is projected to register the fastest growth in the antimony-free polyesters market, in terms of value, during the forecast period.”

Antimony-free polyester packaging is the fastest-growing segment within the market due to heightened health, safety, and environmental concerns associated with conventional antimony-catalyzed PET. The presence of antimony in food and beverage containers, particularly PET bottles, has raised alarms among regulators and consumers. To address this issue, strict regulations in countries such as the European Union, Japan, and South Korea are encouraging the adoption of safer alternatives. This regulatory movement, combined with a growing consumer awareness and demand for non-toxic and sustainable packaging, is driving the rapid increase in the use of antimony-free polyester. Major fast-moving consumer goods (FMCG) and beverage companies

are also transitioning to sustainable and compliant packaging formats as part of their sustainability strategies. Antimony-free polyester, especially PET produced with titanium-based catalysts, maintains the same performance attributes while complying with health standards.

“Asia Pacific is projected to be the fastest-growing region in the antimony-free polyesters market, in terms of value, during the forecast period.

The Asia Pacific region is the fastest-growing market for antimony-free polyesters, driven by a combination of industrial, consumer, and regulatory factors. Countries like China, Japan, and South Korea are implementing stricter environmental and health regulations aimed at reducing the use of heavy metals, such as antimony, in manufacturing processes. As a result, polyester manufacturers are turning to safer alternatives, such as titanium- and aluminum-based catalysts. Additionally, Asia Pacific is home to some of the world’s largest textile and packaging production centers, which create significant downstream demand for antimony-free polyesters. The rising middle class and increased awareness of environmental issues are also influencing consumer preferences toward sustainable and non-toxic products. Furthermore, urbanization, industrialization, and regional exports are driving the demand for compliant and environmentally friendly materials, including antimony-free polyesters.

In-depth interviews were conducted with chief executive officers (CEOs), marketing directors, other innovation and technology directors, and executives from various key organizations operating in the antimony-free polyesters market, and information was gathered from secondary research to determine and verify the market size of several segments.

By Company Type: Tier 1 – 50%, Tier 2 – 30%, and Tier 3 – 20%

By Designation: Managers– 15%, Directors – 20%, and Others – 65%

By Region: North America – 20%, Europe – 30%, Asia Pacific – 40%, Middle East & Africa– 5%, and South America – 5%

The antimony-free polyesters market comprises major players such as Mitsubishi Polyester Film GmbH (Germany), Ester Industries Ltd. (India), Indorama Ventures Public Company Limited (Thailand), Toray Advanced Materials Korea Inc. (South Korea), NAN YA PLASTICS CORPORATION (Taiwan), HANGZHOU LEMMEJOY

CHEMICAL FIBER CO., LTD. (China), PT Asia Pacific Fibers Tbk (Indonesia), TIANJIN GT NEW MATERIAL TECHNOLOGY CO., LTD (China), Amerex Hubei Decon Polyester Co., Ltd. (China), and ZHEJIANG DONGTAI NEW MATERIALS CO., LTD.. (China). The study includes an in-depth competitive analysis of these key players in the antimony-free polyesters market, as well as their company profiles, recent developments, and key market strategies.

Research Coverage

This report segments the market for antimony-free polyesters on the basis of product type, catalyst, end-use industry, and region, and provides estimations for the overall value of the market across various regions. A detailed analysis of key industry players has been conducted to provide insights into their business overviews, products & services, key strategies, and expansions associated with the antimony-free polyesters market.

Key Benefits of Buying This Report

This research report is focused on various levels of analysis — industry analysis (industry trends), market ranking analysis of top players, and company profiles, which together provide an overall view of the competitive landscape; emerging and high-growth segments of the antimony-free polyesters market; high-growth regions; and market drivers, restraints, opportunities, and challenges. The report provides insights on the following pointers:

Analysis of drivers: (rising demand for sustainable and non-toxic materials), restraints (limited availability of substitutes against antimony), opportunities (expanding use of PET in high-growth regions), and challenges (performance optimization in the production of antimony-free catalysts) influencing the growth of the antimony-free polyesters market.

Market Penetration: Comprehensive information on antimony-free polyesters offered by top players in the antimony-free polyesters market.

Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, expansions, investments, collaborations, and partnerships in the market.

Market Development: Comprehensive information about lucrative emerging

markets. The report analyzes the antimony-free polyesters market across regions.

Market Capacity: Production capacities of companies producing antimony-free polyesters are provided wherever available, with upcoming capacities for the antimony-free polyesters market.

Competitive Assessment: In-depth assessment of market shares, strategies, products, and manufacturing capabilities of leading players in the antimony-free polyesters market.

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