

Global Antioxidant 1222 Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Antioxidant 1222 market size is expected to reach \$ 405 million by 2032, rising at a market growth of 3.6% CAGR during the forecast period (2026-2032). Global production of antioxidant 1222 is projected to reach 150,000 tons by 2025, with an average selling price of approximately US\$2,000 per ton.

Antioxidant 1222 (chemical name: 3,5-di-tert-butyl-4-hydroxybenzyl diethylphosphonate, CAS No. 976-56-7) is a phosphorus-containing hindered phenolic antioxidant with the molecular formula $C_{22}H_{30}O_2P$. It appears as a white or slightly yellow crystalline powder with a melting point of 159-161°C. Its core characteristic lies in its highly efficient antioxidant effect achieved through a phosphorus-phenol synergistic structure, while also possessing extraction resistance (not easily extracted by solvents) and photostability. It is widely used in the anti-aging treatment of polymer materials such as polyesters and polyamides. The industry's gross profit margin is approximately 15-25%. Upstream: Core raw materials include phosphate esters, tert-butanol, and phenol, with phosphate esters accounting for over 40% of the cost. Technological barriers lie in catalyst selection and reaction condition control. Downstream: Covering polyester fibers, engineering plastics, automotive interiors, and electronic packaging, B-end customers (such as chemical fiber plants and modified plastics companies) account for over 80%, while the C-end consumer market (such as DIY materials and 3C accessories) is experiencing significant growth.

Market drivers primarily include the following:

Explosive growth in demand for new energy and lightweight materials

Increased weather resistance requirements in photovoltaic frames, lithium battery separators, and lightweight automotive materials (such as PA66 and PBT) are driving the penetration rate of antioxidant 1222 in high-end engineering plastics. For example, photovoltaic modules need to operate stably in environments ranging from -40° to 85°, and antioxidant 1222 can significantly extend the material's lifespan.

Stricter environmental regulations forcing upgrades

Standards such as the EU REACH regulation and China's 'Green Product Evaluation' impose stringent limits on volatile organic compound (VOC) emissions from materials. Antioxidant 1222, due to its low toxicity and migration resistance, has become the preferred alternative to traditional antioxidants (such as 1010 and 168).

Consumer upgrades driving functional expansion

Home appliances and 3C products are developing towards high-end and personalized products, requiring materials to simultaneously meet demands for anti-yellowing, scratch resistance, and high gloss. Antioxidant 1222, when combined with UV absorbers and nucleating agents, can be developed into a 'one-stop' solution, simplifying the customer's formulation design process.

This report studies the global Antioxidant 1222 production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Antioxidant 1222 and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Antioxidant 1222 that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Antioxidant 1222 total production and demand, 2021-2032, (Tons)

Global Antioxidant 1222 total production value, 2021-2032, (USD Million)

Global Antioxidant 1222 production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Antioxidant 1222 consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Antioxidant 1222 domestic production, consumption, key domestic manufacturers and share

Global Antioxidant 1222 production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Antioxidant 1222 production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Antioxidant 1222 production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Antioxidant 1222 market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Exim-Indis, Inc., Johoku Chemical Co., Ltd., Qingdao Truelight Functional MATERIALS Technology Co., Ltd., Shanghai Chainpharm Biotechnology Co., Ltd., Hubei Jianchu Biopharmaceutical Co., Ltd., Suqian Rising Chemical Co., Ltd., Shayang Qinjiang Chemical Co., Ltd., Hubei Hongxin Ruiyu Fine

Chemical Co., Ltd., Jining Xinhe Chemical Co., Ltd., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Antioxidant 1222 market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Antioxidant 1222 Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Antioxidant 1222 Market, Segmentation by Type:

Purity above 99%

Purity 98-99%

Purity below 98%

Global Antioxidant 1222 Market, Segmentation by Product Forms:

Powdered

Particulate

Global Antioxidant 1222 Market, Segmentation by Functional Category:

Primary Antioxidant

Secondary Antioxidant

Composite

Global Antioxidant 1222 Market, Segmentation by Application:

Plastic Processing

Rubber Processing

Paint Processing

Fiber Processing

Other

Companies Profiled:

Exim-Indis, Inc.

Johoku Chemical Co., Ltd.

Qingdao Truelight Functional MATERIALS Technology Co., Ltd.

Shanghai Chainpharm Biotechnology Co., Ltd.

Hubei Jianchu Biopharmaceutical Co., Ltd.

Suqian Rising Chemical Co., Ltd.

Shayang Qinjiang Chemical Co., Ltd.

Hubei Hongxin Ruiyu Fine Chemical Co., Ltd.

Jining Xinhe Chemical Co., Ltd.

Key Questions Answered:

1. How big is the global Antioxidant 1222 market?
2. What is the demand of the global Antioxidant 1222 market?
3. What is the year over year growth of the global Antioxidant 1222 market?
4. What is the production and production value of the global Antioxidant 1222 market?
5. Who are the key producers in the global Antioxidant 1222 market?
6. What are the growth factors driving the market demand?

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