

Global Phosphine Oxide Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Phosphine Oxide market size is expected to reach \$ 738 million by 2032, rising at a market growth of 5.2% CAGR during the forecast period (2026-2032).

In 2025, global Phosphine Oxide output reached about 120,000 tons and global capacity of around 130,000 tons. The average price is about USD 4,200 per ton, with gross margins near 28%. Phosphine Oxide refers to a class of organophosphorus compounds containing a phosphorus–oxygen double bond ($P=O$), with the general formula $R_3P=O$, where R represents alkyl, aryl, or functionalized organic groups. These compounds are characterized by high thermal stability, strong polarity, and excellent coordination ability, making them valuable as flame retardant intermediates, catalyst ligands, extractants for rare earth and metal separation, pharmaceutical and agrochemical intermediates, electrolyte additives, polymer modifiers, and specialty chemical building blocks. Commercial production typically begins with phosphorus-containing raw materials such as elemental phosphorus, phosphorus trichloride (PCl_3), phosphine (PH_3), or organophosphorus intermediates, which are reacted with Grignard reagents, organolithium compounds, or other organic feedstocks to produce tertiary phosphines. These phosphines are subsequently oxidized using oxygen, hydrogen peroxide, organic peroxides, or other oxidizing agents to form the corresponding phosphine oxides with high selectivity. The supply chain includes upstream suppliers of phosphorus, chlorine, petrochemical feedstocks, aromatic compounds, and oxidizing agents; midstream manufacturers specializing in organophosphorus synthesis, purification, and formulation; and downstream users across the chemical, electronics, semiconductor, pharmaceutical, agrochemical, polymer, mining, and advanced materials industries, where phosphine oxides serve as functional additives, synthesis intermediates, metal extraction agents, and high-performance specialty chemicals.

Report Scope

This report studies the global Phosphine Oxide production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Phosphine Oxide 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 Phosphine Oxide that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Phosphine Oxide total production and demand, 2021-2032, (Kilotons)

Global Phosphine Oxide total production value, 2021-2032, (USD Million)

Global Phosphine Oxide production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global Phosphine Oxide consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: Phosphine Oxide domestic production, consumption, key domestic manufacturers and share

Global Phosphine Oxide production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global Phosphine Oxide production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Phosphine Oxide production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Phosphine Oxide 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 Taihei Chemical, DuPont, Albemarle, ICL Group, Arkema, Evonik, Syensqo, Nippon Chemical, Strem Chemicals, Mitsubishi Chemical, 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 Phosphine Oxide market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) 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 Phosphine Oxide Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Phosphine Oxide Market, Segmentation by Type:

Technical Grade (90–95%)

Industrial Grade (95–99%)

High-Purity Grade (>99%)

Global Phosphine Oxide Market, Segmentation by Carbon Chain Length:

Short-Chain Phosphine Oxide

Medium-Chain Phosphine Oxide

Long-Chain Phosphine Oxide

Global Phosphine Oxide Market, Segmentation by Application:

Petrochemical

Metallurgy

Pharmaceutical

Electronics

Others

Companies Profiled:

Taihei Chemical

DuPont

Albemarle

ICL Group

Arkema

Evonik

Syensqo

Nippon Chemical

Strem Chemicals

Mitsubishi Chemical

Shandong Hongchuan Chemical

Wuhan Jixinyibang Biotechnology

Benxi G-Chem

Key Questions Answered:

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

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