

# Global Phosphorus Oxychloride for Diffusion Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Phosphorus Oxychloride for Diffusion market size is expected to reach \$ 105 million by 2032, rising at a market growth of 5.7% CAGR during the forecast period (2026-2032).

Phosphorus Oxychloride (POCl<sub>3</sub>) is commonly used in the semiconductor industry for the diffusion process. In the diffusion process, POCl<sub>3</sub> is used as a dopant source to introduce phosphorus atoms into silicon wafers. During the diffusion process, the silicon wafers are exposed to a high-temperature environment, and POCl<sub>3</sub> is vaporized and introduced into the furnace. The phosphorus atoms from POCl<sub>3</sub> diffuse into the silicon lattice, creating a doped region with desired electrical properties. Phosphorus Oxychloride is preferred for diffusion because it provides a controlled and uniform doping profile. It is also compatible with the silicon wafer manufacturing process and can be easily removed after diffusion. In 2025, global Phosphorus Oxychloride for Diffusion production reached approximately 39.62 K MT, with an average global market price of around US\$ 1,745 per MT.

The demand for phosphorus oxychloride for diffusion is highly related to the photovoltaic and semiconductor industries. In recent years, with the rapid growth of global photovoltaic installed capacity and the upgrading of high-efficiency battery technology, the demand for high-purity diffusion materials has continued to increase. Especially in the context of TOPCon and the promotion of efficient crystalline silicon battery technology, the requirements for the purity and stability of phosphorus oxychloride for diffusion are constantly increasing, driving the market towards high-end and large-scale development. At the same time, industry enterprises are strengthening the construction of high-purity production capacity and supply chain stability, and the Asian region, especially China, remains the most concentrated market for the production and

consumption of this product.

This report studies the global Phosphorus Oxychloride for Diffusion production, demand, key manufacturers, and key regions.

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

### **Highlights and key features of the study**

Global Phosphorus Oxychloride for Diffusion total production and demand, 2021-2032, (Kilotons)

Global Phosphorus Oxychloride for Diffusion total production value, 2021-2032, (USD Million)

Global Phosphorus Oxychloride for Diffusion production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global Phosphorus Oxychloride for Diffusion consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: Phosphorus Oxychloride for Diffusion domestic production, consumption, key domestic manufacturers and share

Global Phosphorus Oxychloride for Diffusion production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global Phosphorus Oxychloride for Diffusion production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Phosphorus Oxychloride for Diffusion production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Phosphorus Oxychloride for Diffusion

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 Merck KGaA, PCC Rokita SA, Guizhou Wylton Jinglin Electronic Material, Xuzhou Yongli Fine Chemical, Huai'an Huayuan Chemical, Xuzhou Yongda Chemical, Anhui Shengli Pesticide & Chemistry, 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 Phosphorus Oxychloride for Diffusion 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 Phosphorus Oxychloride for Diffusion Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

## Global Phosphorus Oxychloride for Diffusion Market, Segmentation by Type:

Purity 6N

Purity 7N

## Global Phosphorus Oxychloride for Diffusion Market, Segmentation by Usage Classification:

Semiconductor Grade

Photovoltaic Grade

## Global Phosphorus Oxychloride for Diffusion Market, Segmentation by Application:

Solar Cell

Semiconductor

Other

## Companies Profiled:

Merck KGaA

PCC Rokita SA

Guizhou Wylton Jinglin Electronic Material

Xuzhou Yongli Fine Chemical

Huai'an Huayuan Chemical

Xuzhou Yongda Chemical

Anhui Shengli Pesticide & Chemistry

**Key Questions Answered:**

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

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