

Global Solid Phosphorous Acid Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G96B99783D8AEN.html>

Date: August 2026

Pages: 123

Price: US\$ 4,480.00 (Single User License)

ID: G96B99783D8AEN

Abstracts

The global Solid Phosphorous Acid market size is expected to reach \$ 262 million by 2032, rising at a market growth of 5.1% CAGR during the forecast period (2026-2032).

Solid phosphorous acid refers to a solid product of phosphorous acid with the chemical formula H_3PO_3 , typically appearing as white or slightly yellow crystals, crystalline powders, flakes or granular solids. Common industrial specifications include 98%, 98.5%, and 99%. It is different from phosphoric acid, as hypophosphite is a dicarboxylic acid with strong reducibility. It is mainly produced by the hydrolysis of phosphorus trichloride or related phosphorus chemical by-products. It is commonly used in the production of hypophosphite, phosphonates, water treatment agents, plastic stabilizers, pesticide intermediates, flame retardants, and fine chemical intermediates. In 2025, global Solid Phosphorous Acid production reached approximately 159.67 K MT, with an average global market price of around US\$ 1,120 per MT. The annual production capacity of solid phosphorous acid is 260 K MT, with a gross profit margin of about 20%.

The upstream mainly includes yellow phosphorus or red phosphorus, chlorine gas, phosphorus trichloride, water, steam, electricity, cooling water, crystallization and refining equipment, corrosion-resistant reaction vessels, drying equipment, moisture-proof packaging bags, and hazardous chemical warehousing and logistics. The mainstream industrial route is the reaction of phosphorus trichloride with water to produce phosphorous acid and hydrogen chloride, and the hydrolysis of PCl_3 to produce phosphorous acid is also a major process listed in public cost reports and chemical data.

The downstream of solid hypophosphite mainly includes water treatment agents,

phosphonates, detergent auxiliaries, plastic stabilizers, PVC heat stabilizers, flame retardants, pesticide intermediates, hypophosphite fertilizers, plant protection preparations, pharmaceutical intermediates, fine chemical intermediates, and metal surface treatment chemicals.

Phosphorus trichloride or related phosphorus source raw materials account for about 55% to 68%, auxiliary chemicals such as chlorine gas, acid and alkali, and process water account for about 4% to 8%, steam, electricity, cooling water, and drying energy consumption account for about 8% to 12%, crystallization, centrifugation, drying, and crushing packaging processing account for about 5% to 9%, environmental treatment and by-product hydrogen chloride absorption account for about 4% to 8%, labor and equipment depreciation account for about 4% to 7%, detection, metal ion and chloride control account for about 2% to 5%, and packaging, warehousing, and hazardous chemical transportation account for about 3% to 6%.

Solid phosphorous acid is an intermediate product that extends from basic phosphorus chemical industry to fine phosphorus chemical industry. The core demand comes from phosphonates such as water treatment agents ATMP and HEDP, plastic antioxidants and heat stabilizers, phosphorous acid for pesticides and plant protection, PVC stabilizers, flame retardants, and pharmaceutical agrochemical intermediates. Compared to liquid phosphoric acid, solid products are more convenient for long-distance transportation, storage, and export, and are suitable for use as standardized raw materials in water treatment, plastic additives, and fine chemical enterprises. Therefore, they still have stable demand in Asian exports and European and American distribution systems. From the perspective of industrial structure, Chinese enterprises rely on the by-product routes of yellow phosphorus, phosphorus trichloride, and dimethyl phosphite to form cost and scale advantages, making them an important supply area for solid hypophosphite worldwide; International phosphorus chemical companies such as ICL have advantages in quality stability, compliance systems, and regional customer service. The future market growth is mainly driven by three factors: firstly, the increasing demand for corrosion and scale inhibitors in the industrial circulating water and membrane treatment fields, which drives the consumption of phosphonate intermediates; The second is plastic PVC? The demand for phosphite antioxidants and stabilizers in rubber and lubricating oil systems has increased; Thirdly, the acceptance of hypophosphite plant protection and nutritional products in agriculture has increased.

This report studies the global Solid Phosphorous Acid production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Solid Phosphorous Acid total production and demand, 2021-2032, (Kilotons)

Global Solid Phosphorous Acid total production value, 2021-2032, (USD Million)

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

Global Solid Phosphorous Acid consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: Solid Phosphorous Acid domestic production, consumption, key domestic manufacturers and share

Global Solid Phosphorous Acid production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global Solid Phosphorous Acid production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Solid Phosphorous Acid production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Solid Phosphorous Acid 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 ICL, Linyi Chunming Chemical, Hubei Xingfa Chemicals Group, Yichang Kaixiang Chemical, Rudong Huayun Chemical, Shandong Taihe Technologies, Jiangyin Yaoyu Chemical, Rudong Zhenfeng Yiyang Chemical, Rudong County Lianfeng Chemical, Guizhou SINO-PHOS 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 Solid Phosphorous Acid 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 Solid Phosphorous Acid Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Solid Phosphorous Acid Market, Segmentation by Type:

Content?98%

Content?99%

Global Solid Phosphorous Acid Market, Segmentation by Synthetic Route:

Residual Liquid Method

Phosphorus Trichloride Hydrolysis Method

Global Solid Phosphorous Acid Market, Segmentation by Application:

Plastic Industry

Water Treatment

Agriculture

Synthetic Fiber

Other

Companies Profiled:

ICL

Linyi Chunming Chemical

Hubei Xingfa Chemicals Group

Yichang Kaixiang Chemical

Rudong Huayun Chemical

Shandong Taihe Technologies

Jiangyin Yaoyu Chemical

Rudong Zhenfeng Yiyang Chemical

Rudong County Lianfeng Chemical

Guizhou SINO-PHOS Chemical

Hunan Haohua Chemical

Taizhou Yongchang Chemical

Key Questions Answered:

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

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