

# Global Phosphate Treatment Liquid Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Phosphate Treatment Liquid market size is expected to reach \$ 653 million by 2032, rising at a market growth of 3.3% CAGR during the forecast period (2026-2032).

In 2025, the global production volume of phosphating solutions is projected to reach 258,200 tons, with an average selling price of \$1,960 per ton. The global annual production capacity for phosphating solutions stands at approximately 400,000 tons, with a gross profit margin of approximately 24.7%. A phosphating solution is a chemical liquid utilized in metal surface treatment processes; its objective is to form a phosphorus-containing protective coating on the metal surface, thereby enhancing corrosion resistance, adhesion, and—in the case of black phosphating—esthetic finish. It is frequently employed as a pre-treatment step for steel materials. Common application scenarios include surface pre-treatment and underlayer preparation prior to coating in sectors such as automotive, machinery, tools, and molds. Upstream suppliers for phosphating solutions provide raw materials and basic chemicals, including: Acids and Alkaline Reagents—such as sulfuric acid, hydrochloric acid, nitric acid, and sodium hydroxide—which are used for formulating acidic or alkaline phosphating baths and for process control; Phosphorus Sources and Phosphates—such as inorganic phosphates and trihydroxy phosphates—which serve as the primary source of phosphorus; Complexing Agents and Additives—including chelating agents, surfactants, retarders, scale inhibitors, and defoamers—which are utilized to improve coating structure, deposition uniformity, and equipment protection; and Metal Ion Sources—such as metal salts of iron, manganese, and chromium—which are used to regulate the composition, hardness, and anti-corrosive properties of the coating layer. The midstream segment consists of the manufacturers of phosphating solutions, while downstream applications span industries such as automotive, shipbuilding, aerospace, and machinery

manufacturing.

The market for phosphating treatment fluids is currently undergoing a profound transformation, characterized by a distinct tiered differentiation in the competitive landscape: international chemical giants dominate the high-end segment, leveraging their extensive technological expertise and global OEM certifications, while a multitude of domestic enterprises compete primarily on the basis of pricing and service flexibility. Driven by the pressure of increasingly stringent environmental regulations, traditional high-energy-consumption and high-pollution products are being phased out at an accelerated pace; consequently, the market focus is shifting decisively toward eco-friendly phosphating fluids—such as low-temperature, low-sludge, and nickel-free formulations—as well as toward novel conversion coating technologies like silanes and nanoceramics. While traditional sectors—such as automotive and home appliances—remain the industry's foundational base, the rise of emerging applications—including electric vehicles and renewable energy equipment—is fundamentally redefining the structure of market demand. Concurrently, challenges posed by fluctuating raw material prices and rising environmental compliance costs are compelling enterprises to pursue strategic upgrades centered on technological innovation and value-added services.

This report studies the global Phosphate Treatment Liquid production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Phosphate Treatment Liquid total production and demand, 2021-2032, (Kilotons)

Global Phosphate Treatment Liquid total production value, 2021-2032, (USD Million)

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

Global Phosphate Treatment Liquid consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: Phosphate Treatment Liquid domestic production, consumption, key domestic manufacturers and share

Global Phosphate Treatment Liquid production by manufacturer, production, price,

value and market share 2021-2026, (USD Million) & (Kilotons)

Global Phosphate Treatment Liquid production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Phosphate Treatment Liquid production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Phosphate Treatment Liquid 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 Henkel AG, BASF, Nihon Parkerizing, PPG, PMD Chemicals, Blast Wash UK, Quaker Houghton, Nippon Paint, SG-Galvanobedarf, Sichuan Hengtong, 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 Phosphate Treatment Liquid 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 Phosphate Treatment Liquid Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Phosphate Treatment Liquid Market, Segmentation by Type:

Zinc-Based Phosphating Solution

Manganese-Based Phosphating Solution

Iron-Based Phosphating Solution

Zinc-Calcium-Based Phosphating Solution

Zinc-Manganese-Based Phosphating Solution

Other

#### Global Phosphate Treatment Liquid Market, Segmentation by Temperature:

Medium-temperature Phosphate Treatment Solution

High-temperature Phosphate Treatment Solution

#### Global Phosphate Treatment Liquid Market, Segmentation by Phosphating Film Thickness:

Film Weight: 0.1–1.0 g/m<sup>2</sup>

Film Weight: 1.1–4.5 g/m<sup>2</sup>

Film Weight: >7.5 g/m<sup>2</sup>

## Global Phosphate Treatment Liquid Market, Segmentation by Application:

Automobiles

Shipbuilding

Aerospace

Machinery

Home Appliances

Other

## Companies Profiled:

Henkel AG

BASF

Nihon Parkerizing

PPG

PMD Chemicals

Blast Wash UK

Quaker Houghton

Nippon Paint

SG-Galvanobedarf

Sichuan Hengtong

Yingxing Metal Surface Treatment

Shenzhen Linda Fine Chemicals

Chongqing Changyu Metal Surface Treatment Technology

Jiaozuo Fubang Cleaning

Hunan Guterui New Materials Technology

Qingdao Ai Dasheng Environmental Protection Technology

Zhengbang Surface Treatment Agents

Julong Chemicals

Changzhou Junhe Technology

Changyi United Technology

Hubei Haili Environmental Protection

#### Key Questions Answered:

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

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