

Global Phosphating Solution & Phosphorizing Liquid Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Phosphating Solution & Phosphorizing Liquid market size was valued at US\$ 521 million in 2025 and is forecast to a readjusted size of US\$ 653 million by 2032 with a CAGR of 3.3% during review period.

In 2025, global production 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%. Phosphating solution (or phosphating treatment fluid) is a chemical solution utilized in metal surface treatment processes; its purpose is to form a phosphorus-containing protective coating on the metal surface, thereby enhancing corrosion resistance, adhesion, and—in the case of black phosphating—aesthetic finish. It is frequently employed in the pre-treatment of 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 of 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 solutions 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-corrosion properties of the coating film. The midstream

segment consists of the manufacturers of phosphating solutions, while downstream applications span industries such as automotive, shipbuilding, aerospace, and machinery manufacturing.

The current market for phosphating solutions is at a critical juncture, marked by a transition between traditional practices and innovation. In terms of the competitive landscape, the market exhibits a stratified structure: international giants dominate the high-end segment, leveraging their advantages in branding and technology, while numerous domestic enterprises compete primarily on price and service flexibility; meanwhile, industry concentration is gradually increasing. On the technological front, the sector faces significant pressure to undergo a 'green transition.' Traditional zinc- and manganese-based products are confronting severe challenges posed by environmental regulations, thereby driving the emergence of eco-friendly solutions—such as low-sludge, nickel-free, and low-temperature formulations—as well as novel conversion coating technologies (e.g., silanes and nanoceramics) capable of replacing traditional phosphating methods, which are gradually becoming the market mainstream. On the demand side, the market remains stable; traditional sectors such as automotive manufacturing and home appliances continue to serve as the foundational base, while emerging fields—including electric vehicles and renewable energy equipment—are injecting fresh vitality into the market.

This report is a detailed and comprehensive analysis for global Phosphating Solution & Phosphorizing Liquid market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Phosphating Solution & Phosphorizing Liquid market size and forecasts, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (USD/MT), 2021-2032

Global Phosphating Solution & Phosphorizing Liquid market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (USD/MT), 2021-2032

Global Phosphating Solution & Phosphorizing Liquid market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (USD/MT), 2021-2032

Global Phosphating Solution & Phosphorizing Liquid market shares of main players, shipments in revenue (\$ Million), sales quantity (Kilotons), and ASP (USD/MT), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Phosphating Solution & Phosphorizing Liquid
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Phosphating Solution & Phosphorizing Liquid market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Henkel, 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.

Market Segmentation

Phosphating Solution & Phosphorizing Liquid market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Zinc-based

Iron-based

Zinc-iron-based

Manganese-based

Zinc-calcium-based

Zinc-manganese-based

Other

Market segment by Temperature

Medium-temperature Phosphate Treatment Solution

High-temperature Phosphate Treatment Solution

Market segment by Phosphating Film Thickness

Film Weight: 0.1–1.0 g/m²

Film Weight: 1.1–4.5 g/m²

Film Weight: >7.5 g/m²

Market segment by Application

Automobiles

Shipbuilding

Aerospace

Machinery

Home Appliances

Other

Major players covered

Henkel

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

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Phosphating Solution & Phosphorizing Liquid product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Phosphating Solution & Phosphorizing Liquid, with price, sales quantity, revenue, and global market share of Phosphating Solution & Phosphorizing Liquid from 2021 to 2026.

Chapter 3, the Phosphating Solution & Phosphorizing Liquid competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Phosphating Solution & Phosphorizing Liquid breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Phosphating Solution & Phosphorizing Liquid market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Phosphating Solution & Phosphorizing Liquid.

Chapter 14 and 15, to describe Phosphating Solution & Phosphorizing Liquid sales channel, distributors, customers, research findings and conclusion.

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