

Global Non-Phosphorus Cooling Water Treatment Chemicals 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 Non-Phosphorus Cooling Water Treatment Chemicals market size was valued at US\$ 657 million in 2025 and is forecast to a readjusted size of US\$ 938 million by 2032 with a CAGR of 5.5% during review period.

Non-Phosphorus Cooling Water Treatment Chemicals are a class of industrial water treatment agents specifically formulated without phosphorus elements. They are designed for use in industrial circulating cooling water systems to prevent equipment scaling, metal corrosion, and microbial proliferation. These products serve as eco-friendly alternatives to traditional phosphorus-containing water treatment agents—such as organic phosphonates—and effectively mitigate the issue of eutrophication in natural water bodies caused by industrial wastewater discharge.

The upstream segment of the phosphorus-free cooling water treatment chemicals market primarily comprises raw materials such as acrylic acid, maleic anhydride, carboxylic acid monomers, phosphorus-free copolymers, natural organic acids, polycarboxylates, zinc-substitute corrosion inhibitors, and inorganic corrosion inhibitors (e.g., molybdates and silicates). The midstream segment consists of water treatment chemical manufacturers and water treatment service providers.

In 2025, the global sales volume of phosphorus-free cooling water treatment chemicals is projected to reach approximately 380,000 tons, with a global average price ranging from \$2,300 to \$3,000 per ton. Leading manufacturers in the industry are expected to maintain gross margins of approximately 28% to 42%.

This report is a detailed and comprehensive analysis for global Non-Phosphorus Cooling Water Treatment Chemicals 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 Non-Phosphorus Cooling Water Treatment Chemicals market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Non-Phosphorus Cooling Water Treatment Chemicals market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Non-Phosphorus Cooling Water Treatment Chemicals market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Non-Phosphorus Cooling Water Treatment Chemicals market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 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 Non-Phosphorus Cooling Water Treatment Chemicals

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 Non-Phosphorus Cooling Water Treatment Chemicals 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 Veolia, Ecolab, ChemTreat, Kurita, Solenis, Buckman, Shandong Taihe Technologies, Shandong Kairui Chemistry, Xingerui Environmental Technology, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Non-Phosphorus Cooling Water Treatment Chemicals 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

Polymer-based

Inorganic Salt-based

Copper Corrosion Inhibitor

Other

Market segment by Function

Corrosion Inhibitor

Scale Inhibitor

Dispersant

Other

Market segment by Application

Power

Industrial

Petrochemicals

Data Centers

Public Buildings

Others

Major players covered

Veolia

Ecolab

ChemTreat

Kurita

Solenis

Buckman

Shandong Taihe Technologies

Shandong Kairui Chemistry

Xingerui Environmental Technology

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 Non-Phosphorus Cooling Water Treatment Chemicals product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Non-Phosphorus Cooling Water Treatment Chemicals, with price, sales quantity, revenue, and global market share of Non-Phosphorus Cooling Water Treatment Chemicals from 2021 to 2026.

Chapter 3, the Non-Phosphorus Cooling Water Treatment Chemicals competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Non-Phosphorus Cooling Water Treatment Chemicals 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 Non-Phosphorus Cooling Water Treatment Chemicals 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 Non-Phosphorus Cooling Water Treatment Chemicals.

Chapter 14 and 15, to describe Non-Phosphorus Cooling Water Treatment Chemicals sales channel, distributors, customers, research findings and conclusion.

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