

Global Non-Phosphorus Cooling Water Treatment Chemicals Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Non-Phosphorus Cooling Water Treatment Chemicals market size is expected to reach \$ 938 million by 2032, rising at a market growth of 5.5% CAGR during the forecast period (2026-2032).

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 studies the global Non-Phosphorus Cooling Water Treatment Chemicals

production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Non-Phosphorus Cooling Water Treatment Chemicals 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 Non-Phosphorus Cooling Water Treatment Chemicals that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Non-Phosphorus Cooling Water Treatment Chemicals total production and demand, 2021-2032, (Tons)

Global Non-Phosphorus Cooling Water Treatment Chemicals total production value, 2021-2032, (USD Million)

Global Non-Phosphorus Cooling Water Treatment Chemicals production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Non-Phosphorus Cooling Water Treatment Chemicals consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Non-Phosphorus Cooling Water Treatment Chemicals domestic production, consumption, key domestic manufacturers and share

Global Non-Phosphorus Cooling Water Treatment Chemicals production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Non-Phosphorus Cooling Water Treatment Chemicals production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Non-Phosphorus Cooling Water Treatment Chemicals production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Non-Phosphorus Cooling Water Treatment Chemicals 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Non-Phosphorus Cooling Water Treatment Chemicals market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) 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 Non-Phosphorus Cooling Water Treatment Chemicals Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Non-Phosphorus Cooling Water Treatment Chemicals Market, Segmentation by Type:

Polymer-based

Inorganic Salt-based

Copper Corrosion Inhibitor

Other

Global Non-Phosphorus Cooling Water Treatment Chemicals Market, Segmentation by Function:

Corrosion Inhibitor

Scale Inhibitor

Dispersant

Other

Global Non-Phosphorus Cooling Water Treatment Chemicals Market, Segmentation by Application:

Power

Industrial

Petrochemicals

Data Centers

Public Buildings

Others

Companies Profiled:

Veolia

Ecolab

ChemTreat

Kurita

Solenis

Buckman

Shandong Taihe Technologies

Shandong Kairui Chemistry

Xingerui Environmental Technology

Key Questions Answered:

1. How big is the global Non-Phosphorus Cooling Water Treatment Chemicals market?
2. What is the demand of the global Non-Phosphorus Cooling Water Treatment Chemicals market?
3. What is the year over year growth of the global Non-Phosphorus Cooling Water Treatment Chemicals market?
4. What is the production and production value of the global Non-Phosphorus Cooling Water Treatment Chemicals market?
5. Who are the key producers in the global Non-Phosphorus Cooling Water Treatment Chemicals market?
6. What are the growth factors driving the market demand?

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