

Global Low Temperature Pretreatment Refining Agent Market Growth 2026-2032

<https://marketpublishers.com/r/G01759382C43EN.html>

Date: July 2026

Pages: 126

Price: US\$ 3,660.00 (Single User License)

ID: G01759382C43EN

Abstracts

The global Low Temperature Pretreatment Refining Agent market size is predicted to grow from US\$ 213 million in 2025 to US\$ 252 million in 2032; it is expected to grow at a CAGR of 2.5% from 2026 to 2032.

In 2025, the global production of cryogenic pretreatment refining agents reached 108,700 tons, with an average selling price of US\$2,000 per ton. The global annual production capacity of cryogenic pretreatment refining agents is approximately 150,000 tons, with a gross profit margin of approximately 23.2%. Cryogenic pretreatment refining agents are chemical reagents used in the refining process of oils, vegetable oils, etc., primarily to improve the quality of raw materials and enhance the efficiency of subsequent refining processes. Their function is typically to remove impurities from oils, such as phospholipids, free fatty acids, pigments, and other heat-sensitive substances, at relatively low temperatures. The upstream of cryogenic pretreatment refining agents includes surfactants, auxiliaries, and stabilizers. The midstream consists of manufacturers of cryogenic pretreatment refining agents, while downstream applications are mainly in the textile printing, papermaking, and detergent industries.

The market for low-temperature pretreatment refining agents is generally showing an upward trend, mainly driven by demand from the textile printing and dyeing industry for energy conservation, emission reduction (reducing energy consumption and related emissions from high-temperature cooking/scouring), and improved process flexibility (shortening pretreatment cycles and reducing the risk of fabric/fiber damage). Meanwhile, product competition is shifting from whether it can pretreat to removal rate and stability under low-temperature conditions, compatibility with different fiber/sizing systems, and subsequent washing and wastewater load performance. Currently, international chemical companies occupy some high-end customers due to

their formulation and application experience, while domestic companies are rapidly penetrating the market with cost advantages and localized services. However, they still face challenges in batch stability, optimizing applicable process parameters (temperature, time, dosage, and auxiliary agent combinations), and stringent requirements from end-users regarding comprehensive cost accounting (chemical costs + energy consumption + water consumption + wastewater treatment costs). Overall, with the promotion of 'low-temperature/short-process' technology across the industry chain, there is still significant room for growth.

LP Information, Inc. (LPI) ' newest research report, the 'Low Temperature Pretreatment Refining Agent Industry Forecast' looks at past sales and reviews total world Low Temperature Pretreatment Refining Agent sales in 2025, providing a comprehensive analysis by region and market sector of projected Low Temperature Pretreatment Refining Agent sales for 2026 through 2032. With Low Temperature Pretreatment Refining Agent sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Low Temperature Pretreatment Refining Agent industry.

This Insight Report provides a comprehensive analysis of the global Low Temperature Pretreatment Refining Agent landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Low Temperature Pretreatment Refining Agent portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Low Temperature Pretreatment Refining Agent market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Low Temperature Pretreatment Refining Agent and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Low Temperature Pretreatment Refining Agent.

This report presents a comprehensive overview, market shares, and growth opportunities of Low Temperature Pretreatment Refining Agent market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Acidic Refining Agent

Alkaline Refining Agent

Others

Segmentation by Chemical Composition:

Organic

Inorganic

Compound

Segmentation by Temperature Range:

80-85? Low Temperature

75-80? Ultra-Low Temperature

70? Extremely Low Temperature

Cold Reactor (Room Temperature)

Segmentation by Application:

Textile Printing

Paper

Laundry

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Huntsman Corporation

Sumitomo Chemical

Archroma

Sarex

Nicca Chemical

HT Fine Chemical

Satoda Chemical Industrial

Starco Arochem

SHIJIAZHUANG CITY HORIZON CHEMICAL INDUSTRY

Transfar

Guangzhou Zhuangjie Chemical

Honghao Chemical

Jiangsu Haian Petrochemical Plant

Rhyn

DYMATIC CHEMICALS

Dongguan Taiyang New Material Technology

QIANXIA INDUSTRIAL

ShanDong ZhongKang GuoChuang New Material

Ekchemi

ZHONGDA CHEMICAL

Key Questions Addressed in this Report

What is the 10-year outlook for the global Low Temperature Pretreatment Refining Agent market?

What factors are driving Low Temperature Pretreatment Refining Agent market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Low Temperature Pretreatment Refining Agent market opportunities vary by end market size?

How does Low Temperature Pretreatment Refining Agent break out by Type, by Application?

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