

Global Low Temperature Pretreatment Refining Agent Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Low Temperature Pretreatment Refining Agent market size is expected to reach \$ 263 million by 2032, rising at a market growth of 2.4% CAGR during the forecast period (2026-2032).

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.

This report studies the global Low Temperature Pretreatment Refining Agent production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Low Temperature Pretreatment Refining Agent 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 Low Temperature Pretreatment Refining Agent that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Low Temperature Pretreatment Refining Agent total production and demand, 2021-2032, (Kilotons)

Global Low Temperature Pretreatment Refining Agent total production value, 2021-2032, (USD Million)

Global Low Temperature Pretreatment Refining Agent production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global Low Temperature Pretreatment Refining Agent consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: Low Temperature Pretreatment Refining Agent domestic production, consumption, key domestic manufacturers and share

Global Low Temperature Pretreatment Refining Agent production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global Low Temperature Pretreatment Refining Agent production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Low Temperature Pretreatment Refining Agent production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Low Temperature Pretreatment Refining

Agent 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 Huntsman Corporation, Sumitomo Chemical, Archroma, Sarex, Nicca Chemical, HT Fine Chemical, Satoda Chemical Industrial, Starco Arochem, SHIJIAZHANG CITY HORIZON CHEMICAL INDUSTRY, Transfar, 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 Low Temperature Pretreatment Refining Agent 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 Low Temperature Pretreatment Refining Agent Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Low Temperature Pretreatment Refining Agent Market, Segmentation by Type:

Acidic Refining Agent

Alkaline Refining Agent

Others

Global Low Temperature Pretreatment Refining Agent Market, Segmentation by Chemical Composition:

Organic

Inorganic

Compound

Global Low Temperature Pretreatment Refining Agent Market, Segmentation by Temperature Range:

80-85? Low Temperature

75-80? Ultra-Low Temperature

70? Extremely Low Temperature

Cold Reactor (Room Temperature)

Global Low Temperature Pretreatment Refining Agent Market, Segmentation by Application:

Textile Printing

Paper

Laundry

Others

Companies Profiled:

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 Answered:

1. How big is the global Low Temperature Pretreatment Refining Agent market?
2. What is the demand of the global Low Temperature Pretreatment Refining Agent market?
3. What is the year over year growth of the global Low Temperature Pretreatment Refining Agent market?
4. What is the production and production value of the global Low Temperature Pretreatment Refining Agent market?
5. Who are the key producers in the global Low Temperature Pretreatment Refining Agent market?
6. What are the growth factors driving the market demand?

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