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Secondary Refrigerants Market Forecasts to 2032 – Global Analysis By Product (Glycols, Salt Brines, Carbon Dioxide and Other Products), Application, End User and By Geography

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Abstracts

According to Stratistics MRC, the Global Secondary Refrigerants Market is accounted for $927.9 million in 2025 and is expected to reach $1729.3 million by 2032 growing at a CAGR of 9.3% during the forecast period. Secondary refrigerants are heat transfer fluids used to transport thermal energy from one location to another, typically in cooling or refrigeration systems where the primary refrigerant does not circulate directly. These fluids absorb heat from the target area and carry it to the evaporator, where the primary refrigerant removes it. Common secondary refrigerants include water, brines (such as calcium chloride or sodium chloride solutions), and glycol-based solutions. They are widely used in applications like cold storage, ice rinks, and air conditioning systems to reduce the quantity and potential leakage of primary refrigerants, thereby enhancing system safety, efficiency, and environmental compliance.

Market Dynamics:

Driver:

Stringent Environmental Regulations

Stringent environmental restrictions are benefiting the Secondary Refrigerants Market by encouraging the transition from hazardous primary refrigerants to environmentally benign alternatives. In line with sustainability objectives, these rules encourage the use of secondary refrigerants that have zero ozone depletion potential (ODP) and low global warming potential (GWP). Businesses are investing more in secondary systems as

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governments impose stronger emission regulations and phase out HFCs and CFCs. This change stimulates innovation and demand for safer, more energy-efficient refrigerant systems in addition to ensuring compliance.

Restraint:

High Initial Installation Cost

The high initial installation cost significantly hampers the growth of the secondary refrigerants market. Advanced system components, complex infrastructure requirements, and specialized design drive up capital expenses, making adoption less feasible for small and medium enterprises. This financial barrier discourages widespread implementation, especially in developing regions, where budget constraints are critical. Consequently, potential users often opt for traditional systems, slowing market penetration and limiting long-term sustainability advancements.

Opportunity:

Growth of Industrial and Commercial Refrigeration

The growth of industrial and commercial refrigeration significantly drives the secondary refrigerants market. Rising demand for cold storage, food processing, and large-scale HVAC systems has led to increased adoption of secondary refrigerants due to their efficiency and safety benefits. Supermarkets, refrigerated warehouses, and ice rinks increasingly prefer secondary refrigerants to meet sustainability and regulatory goals. This trend enhances market penetration, particularly in developed regions focused on reducing direct emissions from primary refrigerants while ensuring optimal thermal performance and system reliability.

Threat:

System Complexity

The complexity of secondary refrigerant systems poses a significant hindrance to market growth. These systems require specialized design, additional components like heat exchangers and pumps, and skilled installation, increasing initial setup and maintenance costs. Such technical challenges can deter adoption, especially among small#- #and medium-sized enterprises. The need for technical expertise and the risk of operational inefficiencies further limits widespread usage, restraining the overall

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expansion of the Secondary Refrigerants Market.

Covid-19 Impact

The COVID-19 pandemic temporarily disrupted the Secondary Refrigerants Market due to supply chain interruptions, reduced industrial activities, and delays in construction and refrigeration projects. Lockdowns and restrictions slowed down demand in key end-use industries like food processing and chemicals. However, as economies reopened, the market gradually recovered, driven by renewed industrial demand and increased focus on efficient, environmentally friendly refrigeration solutions to meet evolving regulatory and safety standards.

The pharmaceutical segment is expected to be the largest during the forecast period

The pharmaceutical segment is expected to account for the largest market share during the forecast period, due to its stringent temperature control requirements for drug storage and transportation. Secondary refrigerants offer enhanced thermal stability and energy efficiency, making them ideal for maintaining precise temperature ranges critical in pharmaceutical applications. The rise in vaccine production, biopharmaceuticals, and cold chain logistics further fuels demand. As pharmaceutical companies expand their global operations, the need for reliable refrigeration solutions boosts adoption of secondary refrigerants across the industry.

The heat pumps segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the heat pumps segment is predicted to witness the highest growth rate, due to demand for efficient and eco-friendly thermal energy transfer systems. As heat pumps gain popularity in residential, commercial, and industrial applications due to their energy efficiency and low environmental impact, the need for secondary refrigerants that ensure safe, reliable, and effective heat exchange rises. Additionally, government incentives promoting heat pump installations further fuel the adoption of secondary refrigerants, strengthening market growth and innovation in sustainable cooling and heating technologies.

Region with largest share:

During the forecast period, the Asia Pacific region is expected to hold the largest market share due to rapid industrialization, rising commercial infrastructure, and stringent environmental regulations are encouraging the adoption of secondary refrigerants. Additionally, expanding cold chain logistics and growing awareness of sustainable refrigeration practices are further propelling market expansion. Countries like China, India, and Japan are key contributors, supported by government incentives and rising investments in HVAC and industrial refrigeration systems across the region.

Region with highest CAGR:

Over the forecast period, the North America region is anticipated to exhibit the highest CAGR, owing to rising demand for energy-efficient and environmentally friendly refrigeration systems. Strict regulatory standards, such as those from the EPA, are encouraging the shift away from primary refrigerants with high global warming potential. Additionally, the region's strong industrial base, particularly in food processing and cold chain logistics, is boosting adoption. Technological advancements and increasing investments in HVACR infrastructure are further supporting the market's expansion across North America.

Key players in the market

Some of the key players profiled in the Secondary Refrigerants Market include Dow Chemical Company, BASF SE, Clariant AG, Arteco NV, Eastman Chemical Company, Dynalene Inc., Brinecool Refrigeration, Hydratech, Haldor Topsoe A/S, Linde plc, Kilfrost Ltd, MPG Company, Sasol Limited, ChemPoint, Solvay SA, Perstorp Holding AB, Houghton International, Tetra Chemicals Europe AB and Axima Refrigeration.

Key Developments:

In April 2025, BASF announced its first Canadian Master Research Agreement (MRA) with the University of Toronto, marking a significant milestone in the company's efforts to expand its research collaborations in North America. This partnership aims to streamline innovation projects and foster collaboration between BASF researchers and Canadian academics.

In October 2024, BASF made a strategic partnership with Aspen Aerogels to enhance its aerogel product offerings and expand its market reach. This partnership is set to drive innovation in aerogel technologies, particularly in high-performance insulation materials.

In July 2024, BASF launched Haptex 4.0, an innovative polyurethane solution for the production of synthetic leather that is 100% recyclable. Synthetic leather made with Haptex 4.0 and polyethylene terephthalate (PET) fabric can be recycled together using an innovative formulation and recycling technical pathway without the need of layer peel-off process.

Products Covered:

- Glycols
- Salt Brines
- Carbon Dioxide
- Other Products

Applications Covered:

- Commercial Refrigeration
- Industrial Refrigeration
- Heat Pumps
- Air Conditioning
- Other Applications

End Users Covered:

- Food Processing
- Dairy Products
- Ice Skating Rinks
- Pharmaceutical

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Chemical Industry

Oil & Gas

Other End Users

Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

Rest of Europe

Asia Pacific

Japan

China

India

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Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:
- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2022, 2023, 2024, 2026, and 2030
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations

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- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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