

Global Gases for Refrigeration and Freezing Market Growth 2026-2032

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Abstracts

The global Gases for Refrigeration and Freezing market size is predicted to grow from US\$ 5588 million in 2025 to US\$ 8349 million in 2032; it is expected to grow at a CAGR of 6.2% from 2026 to 2032.

Gases for Refrigeration and Freezing refer to functional gases utilized for the low-temperature storage, rapid freezing, refrigerated transport, and controlled-atmosphere preservation of food products, pharmaceuticals, fresh produce, and industrial goods. These gases primarily include liquid nitrogen, liquid carbon dioxide, dry ice, nitrogen gas, and nitrogen-carbon dioxide mixtures.

The upstream segment of the industry encompasses air separation, carbon dioxide recovery and purification, cryogenic liquefaction, dry ice manufacturing, storage tanks, gas cylinders, valves, and distribution equipment. The downstream segment finds application in fields such as food processing, cold chain logistics, supermarket and warehouse storage, pharmaceutical refrigeration, fresh produce distribution, and laboratory cryogenic preservation.

Globally, the market for refrigeration and freezing gases commands an average unit price of \$420 per cubic meter, with a total global sales volume of approximately 13.6 million cubic meters. The industry's annual production capacity ranges from 15 million to 16.5 million cubic meters, and the sector maintains a profit margin of approximately 28%.

Moving forward, the global market for refrigeration and freezing gases is poised for growth, driven by the enhancement of cold chain infrastructure, the expansion of the frozen food sector, upgrades in pharmaceutical cold chains, and the development of e-

commerce for fresh produce. The scope of application is expected to broaden beyond traditional food freezing to encompass vaccines, biological samples, precision materials, and cross-border cold chain transport. Liquid nitrogen, liquid carbon dioxide, and dry ice will continue to occupy a pivotal position within the market, owing to their rapid cooling capabilities, stable temperature control, and suitability for short-term refrigeration and emergency transport scenarios. Concurrently, rising customer expectations regarding food quality, transport safety, low-carbon operations, and supply continuity are compelling gas suppliers to evolve toward a comprehensive service model?integrating 'gases + equipment + temperature control solutions + on-site services.' Consequently, the development of robust regional distribution networks and reliable supply capabilities will emerge as key focal points for market competition.

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

This Insight Report provides a comprehensive analysis of the global Gases for Refrigeration and Freezing 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 Gases for Refrigeration and Freezing portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms? unique position in an accelerating global Gases for Refrigeration and Freezing market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Gases for Refrigeration and Freezing 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 Gases for Refrigeration and Freezing.

This report presents a comprehensive overview, market shares, and growth opportunities of Gases for Refrigeration and Freezing market by product type,

application, key manufacturers and key regions and countries.

Segmentation by Type:

Liquid Nitrogen

Liquid Carbon Dioxide

Dry Ice

Nitrogen Gas

Carbon Dioxide Gas

Nitrogen and Carbon Dioxide Mixture

Segmentation by Physical Form:

Cryogenic Liquid

Compressed Gas

Solid Refrigerant

Gas Mixture

Segmentation by Temperature Range:

Chilled Temperature Gas

Frozen Temperature Gas

Deep-Frozen Temperature Gas

Ultra-Low Temperature Gas

Segmentation by Application:

- Food Processing Plants
- Cold Chain Logistics Providers
- Supermarket and Retail Cold Storage
- Pharmaceutical Companies
- Hospitals and Laboratories
- E-commerce Fresh Food Platforms
- 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.

Linde

Air Products

Messer

Airgas

Nippon Sanso

Iwatani

Air Water

SOL Group

Yingde Gases

Hangyang

Jinhong Gas

Huate Gas

KMT Gas

Key Questions Addressed in this Report

What is the 10-year outlook for the global Gases for Refrigeration and Freezing market?

What factors are driving Gases for Refrigeration and Freezing market growth, globally and by region?

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

How do Gases for Refrigeration and Freezing market opportunities vary by end market size?

How does Gases for Refrigeration and Freezing break out by Type, by Application?

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