

Global Gases for Food Cryogenic Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Gases for Food Cryogenic market size is expected to reach \$ 4756 million by 2032, rising at a market growth of 4.6% CAGR during the forecast period (2026-2032).

Gases for food cryogenic applications refer to low-temperature industrial gases utilized for the rapid freezing, cooling, preservation, and temperature-controlled processing of food products. These gases primarily include liquid nitrogen, liquid carbon dioxide, and their mixtures. Their key characteristics include rapid cooling rates, inert protective properties, the ability to minimize ice crystal damage, and the preservation of food color and texture.

The upstream segment of the industry encompasses air separation, carbon dioxide recovery and purification, cryogenic storage and transport equipment, gas cylinders/storage tanks, valves, and piping systems. Downstream applications span various sectors, including meat and poultry, seafood, frozen foods, baked goods, dairy products, fruits and vegetables, ready-to-eat meals, cold chain logistics, and food packaging preservation.

Globally, the average unit price for food-grade cryogenic gases stands at approximately \$350 per ton, with global sales volumes reaching approximately 9.7 million tons. The industry's annual production capacity ranges between 11.5 million and 13 million tons, maintaining a profit margin of approximately 28%.

Moving forward, the global market for food-grade cryogenic gases is expected to be driven by growing demand for frozen foods, ready-to-eat meals, cold chain distribution, and high-quality food processing. Application scenarios are expanding beyond the

traditional freezing of meat and seafood to encompass ready-to-eat meals, semi-finished baked goods, fruit and vegetable preservation, and central kitchen operations. Food manufacturers are placing increased emphasis on freezing efficiency, nutrient retention, textural consistency, and automated continuous production; consequently, solutions utilizing liquid nitrogen, liquid carbon dioxide, and gas mixtures will become deeply integrated with tunnel freezers, spiral freezers, and intelligent temperature control systems. Simultaneously, imperatives regarding energy conservation, cost reduction, food safety regulations, carbon footprint management, and gas recovery/recycling will drive suppliers to offer more comprehensive packages encompassing gases, equipment, and process-related services. Market competition is expected to increasingly center on capabilities related to stable supply, regional distribution networks, technical application support, and customized solutions.

This report studies the global Gases for Food Cryogenic production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Gases for Food Cryogenic 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 Gases for Food Cryogenic that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Gases for Food Cryogenic total production and demand, 2021-2032, (Tons)

Global Gases for Food Cryogenic total production value, 2021-2032, (USD Million)

Global Gases for Food Cryogenic production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Gases for Food Cryogenic consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Gases for Food Cryogenic domestic production, consumption, key domestic manufacturers and share

Global Gases for Food Cryogenic production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Gases for Food Cryogenic production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Gases for Food Cryogenic production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Gases for Food Cryogenic 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 Air Liquide, Linde, Airgas, WestAir, Air Products and Chemicals, OXIGEN salud, Messer, MATHESON, Nippon Gases, Sains Gas, 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 Gases for Food Cryogenic 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 Gases for Food Cryogenic Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Gases for Food Cryogenic Market, Segmentation by Type:

Liquid Nitrogen

Liquid Carbon Dioxide

Dry Ice

Nitrogen Gas

Carbon Dioxide Gas

Nitrogen and Carbon Dioxide Mixture

Global Gases for Food Cryogenic Market, Segmentation by Freezing Process:

Tunnel Freezing

Spiral Freezing

Immersion Freezing

Spray Freezing

Global Gases for Food Cryogenic Market, Segmentation by Food Category:

Meat and Poultry

Seafood and Aquatic Products

Fruits and Vegetables

Bakery and Pastry Products

Dairy Products

Prepared Meals

Frozen Desserts

Global Gases for Food Cryogenic Market, Segmentation by Application:

Food Processing Plants

Frozen Food Manufacturers

Meat Processing Companies

Seafood Processing Companies

Bakery Manufacturers

Central Kitchens

Cold Chain Logistics Providers

Companies Profiled:

Air Liquide

Linde

Airgas

WestAir

Air Products and Chemicals

OXIGEN salud

Messer

MATHESON

Nippon Gases

Sains Gas

Nippon Sanso

Key Questions Answered:

1. How big is the global Gases for Food Cryogenic market?
2. What is the demand of the global Gases for Food Cryogenic market?
3. What is the year over year growth of the global Gases for Food Cryogenic market?
4. What is the production and production value of the global Gases for Food Cryogenic market?
5. Who are the key producers in the global Gases for Food Cryogenic market?
6. What are the growth factors driving the market demand?

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