+357 96 030922
info@marketpublishers.com

Global Gases for Food Cryogenic Market Growth 2026-2032

https://marketpublishers.com/r/G7CCF150F702EN.html
Date: July 2026
Pages: 124
Price: US$ 3,660.00 (Single User License)
ID: G7CCF150F702EN

Abstracts

The global Gases for Food Cryogenic market size is predicted to grow from US$ 3321 million in 2025 to US$ 4596 million in 2032; it is expected to grow at a CAGR of 4.9% from 2026 to 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

+357 96 030922
info@marketpublishers.com

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.

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

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

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

This report presents a comprehensive overview, market shares, and growth opportunities of Gases for Food Cryogenic market by product type, application, key manufacturers and key regions and countries.

+357 96 030922
info@marketpublishers.com

Segmentation by Type:

- Liquid Nitrogen
- Liquid Carbon Dioxide
- Dry Ice
- Nitrogen Gas
- Carbon Dioxide Gas
- Nitrogen and Carbon Dioxide Mixture

Segmentation by Freezing Process:

- Tunnel Freezing
- Spiral Freezing
- Immersion Freezing
- Spray Freezing

Segmentation by Food Category:

- Meat and Poultry
- Seafood and Aquatic Products
- Fruits and Vegetables
- Bakery and Pastry Products
- Dairy Products

+357 96 030922
info@marketpublishers.com

Prepared Meals

Frozen Desserts

Segmentation by Application:

Food Processing Plants

Frozen Food Manufacturers

Meat Processing Companies

Seafood Processing Companies

Bakery Manufacturers

Central Kitchens

Cold Chain Logistics Providers

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

+357 96 030922
info@marketpublishers.com

- 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.

- Air Liquide

+357 96 030922
info@marketpublishers.com

Linde

Airgas

WestAir

Air Products and Chemicals

OXIGEN salud

Messer

MATHESON

Nippon Gases

Sains Gas

Nippon Sanso

Key Questions Addressed in this Report
What is the 10-year outlook for the global Gases for Food Cryogenic market?
What factors are driving Gases for Food Cryogenic market growth, globally and by region?
Which technologies are poised for the fastest growth by market and region?
How do Gases for Food Cryogenic market opportunities vary by end market size?
How does Gases for Food Cryogenic break out by Type, by Application?

+357 96 030922
info@marketpublishers.com

Contents

+357 96 030922
info@marketpublishers.com

3 GLOBAL BY COMPANY

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

13 KEY PLAYERS ANALYSIS

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

List Of Figures

LIST OF FIGURES

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

I would like to order

Product name: Global Gases for Food Cryogenic Market Growth 2026-2032
Product link: https://marketpublishers.com/r/G7CCF150F702EN.html
Price: US$ 3,660.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:
info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/G7CCF150F702EN.html