

Global Gases for Food Cryogenic Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Gases for Food Cryogenic market size was valued at US\$ 3493 million in 2025 and is forecast to a readjusted size of US\$ 4756 million by 2032 with a CAGR of 4.6% during review period.

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 is a detailed and comprehensive analysis for global Gases for Food Cryogenic market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Gases for Food Cryogenic market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Gases for Food Cryogenic market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Gases for Food Cryogenic market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Gases for Food Cryogenic market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Gases for Food Cryogenic

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Gases for Food Cryogenic market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

Gases for Food Cryogenic market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Liquid Nitrogen

Liquid Carbon Dioxide

Dry Ice

Nitrogen Gas

Carbon Dioxide Gas

Nitrogen and Carbon Dioxide Mixture

Market segment by Freezing Process

Tunnel Freezing

Spiral Freezing

Immersion Freezing

Spray Freezing

Market segment by Food Category

Meat and Poultry

Seafood and Aquatic Products

Fruits and Vegetables

Bakery and Pastry Products

Dairy Products

Prepared Meals

Frozen Desserts

Market segment by Application

Food Processing Plants

Frozen Food Manufacturers

Meat Processing Companies

Seafood Processing Companies

Bakery Manufacturers

Central Kitchens

Cold Chain Logistics Providers

Major players covered

Air Liquide

Linde

Airgas

WestAir

Air Products and Chemicals

OXIGEN salud

Messer

MATHESON

Nippon Gases

Sains Gas

Nippon Sanso

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Gases for Food Cryogenic product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Gases for Food Cryogenic, with price, sales quantity, revenue, and global market share of Gases for Food Cryogenic from 2021 to 2026.

Chapter 3, the Gases for Food Cryogenic competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Gases for Food Cryogenic breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Gases for Food Cryogenic market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Gases for Food Cryogenic.

Chapter 14 and 15, to describe Gases for Food Cryogenic sales channel, distributors, customers, research findings and conclusion.

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