

Global Gases for Modified Atmosphere Packaging (MAPAX) Market Growth 2026-2032

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Abstracts

The global Gases for Modified Atmosphere Packaging (MAPAX) market size is predicted to grow from US\$ 782 million in 2025 to US\$ 1112 million in 2032; it is expected to grow at a CAGR of 5.2% from 2026 to 2032.

Gases for Modified Atmosphere Packaging (MAPAX) refer to food-grade gas mixtures—primarily nitrogen (N₂), carbon dioxide (CO₂), and oxygen (O₂), sometimes blended with noble gases—used to replace ambient air inside sealed food packages to slow microbial growth, reduce oxidation, and extend shelf life of fresh, chilled, and processed foods; MAPAX is a branded MAP gas solution framework (widely associated with Linde) integrating tailored gas compositions, purity standards, dosing systems, and food-safety protocols for different product categories.

The MAPAX gases industry chain begins upstream with producers of industrial and food-grade nitrogen, carbon dioxide, oxygen, and specialty gases sourced from air-separation units, CO₂ recovery plants, compressors, cylinders, cryogenic tanks, and purification systems; midstream includes gas companies that blend, purify, package, and distribute MAPAX mixtures while supplying gas-mixing equipment, monitoring systems, and technical support; downstream, food processors and packaging facilities integrate MAPAX into VFFS/HFFS, tray-sealing, and vacuum-MAP lines to extend shelf life, reduce preservatives, and maintain product quality, supported by after-sales services, safety compliance (HACCP/ISO22000), and cold-chain logistics.

Globally, industrial gas companies are expanding MAPAX-related capacity, including new CO₂ recovery and purification units in Europe and North America, nitrogen generation installations for meat and salad processors in the UK, Germany, Spain, and the Nordics, liquid-gas storage and distribution upgrades in the Middle East and

Southeast Asia to support expanding chilled-food production, and multiple planned on-site gas-supply partnerships with large poultry and ready-meal manufacturers in Asia-Pacific through 2025–2027; several European gas suppliers are also investing in digitalized MAPAX monitoring systems and sustainability projects using recycled CO₂ and lower-carbon air-separation technologies.

2024 Global Market sales Volume: 1.5 billion cubic meters, Average Global Market Price: US\$ 0.48 per cubic meter, Market Average Gross Profit Margin: 33%.

United States market for Gases for Modified Atmosphere Packaging (MAPAX) is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Gases for Modified Atmosphere Packaging (MAPAX) is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Gases for Modified Atmosphere Packaging (MAPAX) is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Gases for Modified Atmosphere Packaging (MAPAX) players cover Linde Gas, Air Liquide, Camet Gas, Highsun Holding, Qingdao SAINS Gas Technology Co, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

Report Scope

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

This Insight Report provides a comprehensive analysis of the global Gases for Modified Atmosphere Packaging (MAPAX) 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 Modified Atmosphere Packaging (MAPAX) portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Gases for Modified Atmosphere Packaging (MAPAX) market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Gases for Modified Atmosphere Packaging (MAPAX) 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 Modified Atmosphere Packaging (MAPAX).

This report presents a comprehensive overview, market shares, and growth opportunities of Gases for Modified Atmosphere Packaging (MAPAX) market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

Segmentation by Type:

Nitrogen-based

Carbon-dioxide-based

Oxygen-based

Mixed

Segmentation by Packaging Format:

Rigid Tray

Flexible Films and Pillow Bags

Vacuum

Others

Segmentation by Function:

Oxidation-Control

Microbial-Growth-Control

Color Preserving

Texture-Moisture-Retention

Others

Segmentation by Application:

Dairy

Dry Food & Bakery

Fruit & Veg

Meat

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 Gas

Air Liquide

Camet Gas

Highsun Holding

Qingdao SAINS Gas Technology Co

Key Questions Addressed in this Report

What is the 10-year outlook for the global Gases for Modified Atmosphere Packaging (MAPAX) market?

What factors are driving Gases for Modified Atmosphere Packaging (MAPAX) market growth, globally and by region?

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

How do Gases for Modified Atmosphere Packaging (MAPAX) market opportunities vary by end market size?

How does Gases for Modified Atmosphere Packaging (MAPAX) break out by Type, by Application?

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