

Global Industrial Grade Carbon Dioxide Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Industrial Grade Carbon Dioxide market size is expected to reach \$ 8837 million by 2032, rising at a market growth of 6.3% CAGR during the forecast period (2026-2032).

Industrial grade carbon dioxide refers to carbon dioxide supplied for industrial and commercial uses in gaseous and liquid forms, with its core value being a controlled purity profile and a traceable supply chain that support process needs such as inerting and shielding, heat transfer and refrigeration, reaction media, and process adjustment. The mainstream delivery forms include cylinder gas, small liquid containers, and bulk liquid supply via on site storage tanks, and it can also be extended to solid dry ice to meet cold chain and low temperature operations. The value chain typically starts from byproduct or recovered CO₂ sources and achieves stable quality through purification steps such as washing, dehydration, and removal of impurities and trace contaminants, followed by compression, liquefaction, storage, and filling to create transportable supply formats. Suppliers often offer multiple purity grades and safety related technical services to match manufacturing requirements and food related uses. Typical applications include beverage carbonation, cooling and freezing in food processing, and protective gases for packaging, pH control and neutralization in water treatment and chemical processes, use as a shielding gas or a component of mixed gases for welding and cutting in manufacturing, CO₂ enrichment in greenhouses to improve photosynthesis efficiency, and inerting and displacement in safety and fire related scenarios to reduce combustion risk. The dominant business model is led by industrial gas companies that build regional supply networks through owned or partnered facilities, price by supplied volume and supply mode, and add services such as tank and supply system rental, logistics and delivery, and application support, forming an integrated offering that combines long term supply assurance with on site operations

and maintenance.

The industrial grade carbon dioxide market is fundamentally driven by reliable supply and controlled quality. Suppliers serve a full spectrum of demand by offering gaseous, liquid, and solid forms, ranging from distributed low volume users to continuous high volume consumers. For end users, the priority is not merely purchasing CO₂, but securing repeatable operating conditions, including phase stability, purity and impurity control, stable supply pressure and flow, and safe integration into on site operations. In food and beverage, CO₂ is central to carbonation and cryogenic processing, and it is also used for packaging inerting to reduce oxidation related variability. In manufacturing, welding and cutting are core entry applications, while water and wastewater treatment uses CO₂ as a milder route for process adjustment and neutralization. The solid form, dry ice, further expands use cases into cold chain logistics and surface cleaning. Because these applications run in parallel, competitive advantage increasingly depends on supply networks and service capabilities, including the ability to deliver cylinders, MicroBulk systems, and bulk storage solutions under a single quality framework that supports switching across grades and use requirements.

On the supply and delivery side, industrial grade carbon dioxide is evolving from standalone product sales toward integrated supply solutions. Cylinders remain the baseline delivery mode for distributed customers and mobile operations. However, for mid to high volume users, bulk liquid deliveries and MicroBulk systems are gaining share due to refill efficiency and easier on site management. End users increasingly prefer leased tanks and supply systems to reduce downtime risk and simplify operations. In parallel, purity grading and compliance requirements elevate the importance of quality capabilities. A single supply network often needs to support both industrial uses and food related uses that are more sensitive to odor and trace impurities, making testing, traceability, and standardized procedures more critical. Safety considerations also accelerate the shift, as inerting and displacement are widely adopted in storage and process safety. As a result, customers are more likely to embed gas selection and supply configurations into formal safety assessments and training programs, which in turn supports growth in service based revenue and long term contracts.

Looking ahead, growth opportunities for industrial grade carbon dioxide are more likely to come from downstream upgrading and stronger regional supply networks than from isolated new use points. Food and beverage and cold chain operations are highly sensitive to supply reliability, and dry ice advantages in transport and low temperature processing make it a practical incremental driver. In manufacturing, as processes

become more standardized and automated, requirements for supply stability and delivery efficiency rise, which can accelerate migration from cylinders toward bulk and on site systems. Supply side resilience is equally important. The industry typically builds regional networks around multiple production facilities and contracted raw CO₂ sources, and then converts capacity into dependable supply through logistics and filling infrastructure. As customers place greater emphasis on continuous supply and risk management, suppliers can more readily bundle long term supply agreements with equipment leasing and application support, creating integrated solutions with more stable revenue profiles. Production footprints often cluster around raw CO₂ sources and industrial hubs, while consumption concentrates in manufacturing and food processing regions, and this spatial matching will continue to drive network expansion and consolidation.

This report studies the global Industrial Grade Carbon Dioxide production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Industrial Grade Carbon Dioxide 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 Industrial Grade Carbon Dioxide that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Industrial Grade Carbon Dioxide total production and demand, 2021-2032, (K MT)

Global Industrial Grade Carbon Dioxide total production value, 2021-2032, (USD Million)

Global Industrial Grade Carbon Dioxide production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K MT), (based on production site)

Global Industrial Grade Carbon Dioxide consumption by region & country, CAGR, 2021-2032 & (K MT)

U.S. VS China: Industrial Grade Carbon Dioxide domestic production, consumption, key domestic manufacturers and share

Global Industrial Grade Carbon Dioxide production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K MT)

Global Industrial Grade Carbon Dioxide production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K MT)

Global Industrial Grade Carbon Dioxide production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K MT)

This report profiles key players in the global Industrial Grade Carbon Dioxide 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 Products and Chemicals, Inc., Linde plc, Messer SE & Co. KGaA, Air Liquide, TAIYO NIPPON SANCO CORPORATION, SOL Group, SIAD (SIAD Group), Gulf Cryo, MATHESON Tri-Gas, Inc., Coregas, 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 Industrial Grade Carbon Dioxide market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K MT) and average price (USD/MT) 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 Industrial Grade Carbon Dioxide Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Industrial Grade Carbon Dioxide Market, Segmentation by Type:

Gaseous State

Liquid State

Global Industrial Grade Carbon Dioxide Market, Segmentation by Supply Mode:

Cylinder Supply

MicroBulk

Bulk Tank & Tanker Delivery

On-site Supply Systems & Services

Global Industrial Grade Carbon Dioxide Market, Segmentation by Service Model:

Product-only Delivery

Equipment Leasing & O&M

Global Industrial Grade Carbon Dioxide Market, Segmentation by Application:

Metals Industry

Chemicals and Petroleum Industries

Rubber and Plastics Industries

Food and Beverages Industries

Pharmaceuticals Industry

Companies Profiled:

Air Products and Chemicals, Inc.

Linde plc

Messer SE & Co. KGaA

Air Liquide

TAIYO NIPPON SANSO CORPORATION

SOL Group

SIAD (SIAD Group)

Gulf Cryo

MATHESON Tri-Gas, Inc.

Coregas

Yinde

Jinhong

Continental Carbonic Products

Air Water

India Glycols

Hunan Kaimeite Gases Co., Ltd.

Key Questions Answered:

1. How big is the global Industrial Grade Carbon Dioxide market?
2. What is the demand of the global Industrial Grade Carbon Dioxide market?
3. What is the year over year growth of the global Industrial Grade Carbon Dioxide market?
4. What is the production and production value of the global Industrial Grade Carbon Dioxide market?
5. Who are the key producers in the global Industrial Grade Carbon Dioxide market?
6. What are the growth factors driving the market demand?

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