

U.S. Industrial Gases Market Size, Share & Trends Analysis Report By Product (Oxygen, Nitrogen, Carbon Dioxide), By Application (Healthcare, Manufacturing, Food & Beverages, Chemical & Energy), And Segment Forecasts, 2026 - 2033

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Abstracts

U.S. Industrial Gases Market Summary

The U.S. industrial gases market size was valued at USD 12.8 billion in 2025 and is expected to reach USD 24.2 billion by 2033, growing at a CAGR of 8.5% from 2026 to 2033. The market is primarily driven by the presence of strong manufacturing and high-tech sectors, especially semiconductors, electronics, aerospace, and chemicals.

Nitrogen, argon, and specialty gases are essential for precision manufacturing, including chip fabrication and metal processing. Increased domestic semiconductor production, supported by policies such as the CHIPS and Science Act, is raising demand for ultra-high-purity gases used in cleanroom environments and wafer processing. The accelerating transition toward clean energy and low-carbon industrial processes, which is boosting demand for hydrogen and carbon capture-related gases, is also driving the market.

Investments in hydrogen infrastructure, refining, and mobility applications are creating new demand streams for industrial gas suppliers. For instance, in October 2023, the U.S. Department of Energy announced USD 7 billion in funding for regional hydrogen hubs to scale clean hydrogen production and usage across industries, reinforcing long-term growth opportunities in the market.

The expansion of the healthcare and medical ecosystem, particularly due to rising

chronic diseases and an aging population, is another key factor driving market growth. Industrial gases such as medical oxygen and nitrous oxide are essential for respiratory therapy, anesthesia, and critical care, making them indispensable in hospitals and home healthcare settings. According to the U.S. health expenditure estimates, healthcare spending in the country reached USD 5.3 trillion in 2024, reflecting strong and sustained demand for medical infrastructure and related consumables, including gases.

U.S. Industrial Gases Market Report Segmentation

This report forecasts volume and revenue growth at the country level and provides an analysis of the latest industry trends in each of the sub-segments from 2021 to 2033. For this study, Grand View Research has segmented the U.S. industrial gases market report based on product and application:

Product Outlook (Volume, Kilotons; Revenue, USD Million; 2021 - 2033)

Oxygen

Nitrogen

Carbon Dioxide

Mixtures

Application Outlook (Volume, Kilotons; Revenue, USD Million; 2021 - 2033)

Healthcare

Manufacturing

Metallurgy & Glass

Food & Beverages

Retail

Chemicals & Energy

Other Applications

This report can be delivered to the clients within 5 Business Days

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