

Global Helium Shielding Gases and Welding Gas Mixtures Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Helium Shielding Gases and Welding Gas Mixtures market size is expected to reach \$ 538 million by 2032, rising at a market growth of 4.9% CAGR during the forecast period (2026-2032).

Helium shielding gases and welding gas mixtures are protective welding gases that are either predominantly helium or blended in specific proportions with gases such as argon, carbon dioxide, or oxygen. They are utilized to stabilize the electric arc, increase heat input, and improve weld penetration and bead formation.

The upstream sector encompasses helium extraction and purification, air separation for argon and oxygen production, carbon dioxide recovery and purification, gas blending equipment, gas cylinders and valves, and cryogenic storage and transport systems. The downstream sector finds application in fields such as aerospace, automotive, shipbuilding, pressure vessels, semiconductors, and high-end metal processing.

Globally, the market for helium shielding gases and welding gas mixtures features an average unit price of \$7 per cubic meter, with global sales volumes reaching approximately 54 million cubic meters. Annual production capacity ranges between 65 million and 75 million cubic meters, and the industry maintains a profit margin of approximately 22%.

In the future, the global market will be driven by demand from high-end manufacturing, the welding of aluminum alloys and stainless steels, automated welding processes, and precision metal processing. Helium, characterized by its high ionization potential and high thermal conductivity, enhances welding heat input and penetration depth; it is

therefore well-suited for welding thick plates, aluminum, copper alloys, and for high-speed welding applications. However, given the scarcity of helium resources, price volatility, and concentrated supply, companies will be compelled to optimize their gas formulations?increasingly adopting helium-argon mixtures, low-helium-content blends, and customized welding gas solutions. Moving forward, competition among suppliers is expected to shift from a focus on mere gas supply to a comprehensive service model encompassing 'gas formulation + welding processes + on-site gas supply systems + cost optimization.'

This report studies the global Helium Shielding Gases and Welding Gas Mixtures production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Helium Shielding Gases and Welding Gas Mixtures 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 Helium Shielding Gases and Welding Gas Mixtures that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Helium Shielding Gases and Welding Gas Mixtures total production and demand, 2021-2032, (K Cubic Meter)

Global Helium Shielding Gases and Welding Gas Mixtures total production value, 2021-2032, (USD Million)

Global Helium Shielding Gases and Welding Gas Mixtures production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Cubic Meter), (based on production site)

Global Helium Shielding Gases and Welding Gas Mixtures consumption by region & country, CAGR, 2021-2032 & (K Cubic Meter)

U.S. VS China: Helium Shielding Gases and Welding Gas Mixtures domestic production, consumption, key domestic manufacturers and share

Global Helium Shielding Gases and Welding Gas Mixtures production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Cubic Meter)

Global Helium Shielding Gases and Welding Gas Mixtures production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Cubic Meter)

Global Helium Shielding Gases and Welding Gas Mixtures production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Cubic Meter)

This report profiles key players in the global Helium Shielding Gases and Welding Gas

Mixtures 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 Liquide, Linde, Air Products, Messer, Airgas, Nippon Sanso, Nippon Sanso Matheson, Iwatani, Air Water, SOL Group, 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 Helium Shielding Gases and Welding Gas Mixtures market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Cubic Meter) and average price (US\$/Cubic Meter) 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 Helium Shielding Gases and Welding Gas Mixtures Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Helium Shielding Gases and Welding Gas Mixtures Market, Segmentation by Type:

Argon-Carbon Dioxide Mixture

Argon-Oxygen Mixture

Argon-Helium Mixture

Argon-Hydrogen Mixture

Argon-Carbon Dioxide-Oxygen Mixture

Argon-Helium-Carbon Dioxide Mixture

Helium-Argon Mixture

Global Helium Shielding Gases and Welding Gas Mixtures Market, Segmentation by Gas Reactivity:

Inert Shielding Gas Mixture

Active Shielding Gas Mixture

Reducing Shielding Gas Mixture

Oxidizing Shielding Gas Mixture

Low-Activity Shielding Gas Mixture

Global Helium Shielding Gases and Welding Gas Mixtures Market, Segmentation by Base Material:

Carbon Steel Welding Gas Mixture

Stainless Steel Welding Gas Mixture

Aluminum Alloy Welding Gas Mixture

Low-Alloy Steel Welding Gas Mixture

Nickel Alloy Welding Gas Mixture

Copper Alloy Welding Gas Mixture

Titanium Alloy Welding Gas Mixture

Global Helium Shielding Gases and Welding Gas Mixtures Market, Segmentation by Application:

Automotive Manufacturing

Shipbuilding and Offshore Engineering

Steel Structure Fabrication

Construction Machinery

Others

Companies Profiled:

Air Liquide

Linde

Air Products

Messer

Airgas

Nippon Sanso

Nippon Sanso Matheson

Iwatani

Air Water

SOL Group

Yingde Gases

Hangyang

Jinhong Gas

Huate Gas

KMT Gas

Key Questions Answered:

1. How big is the global Helium Shielding Gases and Welding Gas Mixtures market?
2. What is the demand of the global Helium Shielding Gases and Welding Gas Mixtures market?
3. What is the year over year growth of the global Helium Shielding Gases and Welding Gas Mixtures market?
4. What is the production and production value of the global Helium Shielding Gases and Welding Gas Mixtures market?
5. Who are the key producers in the global Helium Shielding Gases and Welding Gas Mixtures market?
6. What are the growth factors driving the market demand?

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