

# Global Industrial Gases for Metals and Metal Fabrication Market Report 2018-2029

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# Abstracts

Industrial gases for metals and metal fabrication are a specialized group of gases used for various metal manufacturing processes. These gases have applications in the production and refining of metals, welding and cutting, and other metal fabrication related applications. Industrial gases for metals and metal fabrication play a critical role in controlling the chemical and physical properties of metals, enhancing their quality, durability, and strength.

The global Industrial Gases for Metals and Metal Fabrication market size is estimated to be worth US\$49380 million in 2022, with a compound annual growth rate of 8%. The demand for industrial gases for metals and metal fabrication has grown significantly due to the increasing demand for metal products across various industries such as automotive, aerospace, defense, heavy machinery, and others.

Industrial Gases for Metals and Metal Fabrication are primarily used for cylinder and packaged distribution, merchant liquid distribution, and tonnage distribution. Cylinder and packaged distribution refer to the supply of industrial gases for metals in small quantities, typically used by smaller metal fabricators. Merchant liquid distribution refers to the supply of industrial gases for metals in large quantities in liquid form, suitable for larger metal manufacturing processes. Tonnage distribution refers to the supply of industrial gases for metals in bulk quantity, typically used by large-scale metal manufacturers.

The major global manufacturers of Industrial Gases for Metals and Metal Fabrication are Air Liquide, Messer, Cryotec Anlagenbau, Air Products and Chemicals, Airgas, Southern Industrial Gas, Iwatani Corporation, nexAir, Taiyo Nippon Sanso, Praxair, and The Linde Group. These companies invest heavily in research and development to



develop new products and services that comply with international standards and regulations.

The prospects for the Industrial Gases for Metals and Metal Fabrication industry are positive, with continued growth expected as the demand for metal products across industries continues to expand. The growth is driven by the need for efficient metal manufacturing processes, increasing use of lightweight metals in the automotive and aerospace industries, and the rising demand for specialized steel products.

The industry faces the challenge of adapting to new technologies and regulations related to environmental and safety concerns. The manufacturers must continue to invest in research and development to meet changing market demands with efficient and sustainable gas solutions.

In conclusion, Industrial Gases for Metals and Metal Fabrication play a critical role in metal manufacturing processes, enhancing the performance and durability of metal products. The industry has a positive outlook, driven by the growth of various end-use industries, the need for efficient metal manufacturing processes, and the demand for specialized metal products. Cylinder and packaged distribution, merchant liquid distribution, and tonnage distribution are the primary modes of delivery for Industrial Gases for Metals and Metal Fabrication. The industry faces challenges such as changes in regulations and standards related to environmental and safety concerns. However, with continued investment in research and development, the industry can develop innovative and effective gas solutions that meet the needs of customers while delivering value and sustainability.

The SWOT analysis of the Industrial Gases for Metals and Metal Fabrication industry is as follows:

Strengths:

The critical role that industrial gases play in metal manufacturing processes, enhancing the performance of metal products.

The growing demand for metal products across various industries, including automotive, aerospace, defense, and heavy machinery

The global presence of major manufacturers of industrial gases for metals and metal fabrication with strong research and development capabilities

High barriers to entry due to the capital-intensive and technologically advanced nature of the industry

The increasing use of lightweight metals in the automotive and aerospace industries,



driving the demand for specialized metal products.

Weaknesses:

Dependence on end-use industries, which are subject to economic fluctuations and changing industry regulations

Pricing pressures due to intense competition among key players in the market The high cost of transportation and storage of industrial gases for metals and metal fabrication

The challenge of balancing economic and environmental considerations in metal manufacturing processes

The potential impact of geopolitical factors and natural disasters on supply chain and logistics.

#### Opportunities:

Expansion into emerging markets with growing demand for metal products, such as Asia-Pacific, Middle East and Africa, and South America

Developing innovative and customized gas solutions to meet the specific needs of different metal manufacturing processes

Partnership with other companies to offer value-added services like gas storage and logistics

Diversification of product portfolios to meet specific customer needs

Potential to leverage digitalization and artificial intelligence to optimize industrial gases for metals and metal fabrication operations and reduce costs.

#### Threats:

Intense competition leading to price pressures and reduced profit margins Economic downturns and changes in industry regulations impacting demand for metal products and industrial gases for metals and metal fabrication Fluctuations in the prices of raw materials and energy sources Disruptions in supply chain and logistics due to geopolitical issues or natural disasters The challenge of adapting to changes in regulations and standards related to environmental and safety concerns.

Key players in global Industrial Gases for Metals and Metal Fabrication market include: Air Liquide (France) Messer (Germany) Cryotec Anlagenbau (Germany) Air Products and Chemicals (US) Airgas (US)



Southern Industrial Gas (Malaysia) Iwatani Corporation (Japan) nexAir (US) Taiyo Nippon Sanso (Japan) Praxair(US) The Linde Group (US)

Market segmentation, by product types: Oxygen Nitrogen Hydrogen Carbon dioxide Acetylene Others

Market segmentation, by applications: Metal industry Automotive Rail & shipping Aerospace & defense Heavy machinery Others



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