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Industrial Gases for Glass Market - Global Industry Size, Share, Trends, Opportunity, and Forecast Segmented By Type (Hydrogen, Oxygen, Nitrogen, Argon and Acetylene), By Glass Type (Container Glass, Flat Glass and Glass Fiber), By Function (Forming & Melting, Atmospheric Control and Finishing/Polishing), By Transportation Mode (Cylinder & Packaged Gas Distribution, Merchant Liquid Distribution and Tonnage Distribution), By Region and Competition, 2020-2030F

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Abstracts

The Global Industrial Gases for Glass Market, valued at USD 5.15 Billion in 2024, is projected to experience a CAGR of 10.02% to reach USD 9.13 Billion by 2030. Industrial gases for the glass market, encompassing oxygen, nitrogen, hydrogen, and argon, are integral to various glass manufacturing processes, including melting, forming, and finishing, enhancing efficiency, quality, and environmental performance. The market's expansion is primarily driven by escalating global demand for glass in construction, automotive, and packaging sectors, the growing adoption of oxygen-fuel combustion in furnaces for improved energy efficiency, and the increasing application of specialty gases for advanced glass types.

Key Market Drivers

Technological advancements in glass manufacturing processes represent a critical driver for the global industrial gases for glass market. Innovations such as oxygen-fuel

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combustion and advanced annealing techniques significantly optimize energy consumption and enhance product quality, directly influencing the demand for industrial gases like oxygen and nitrogen. These technological shifts require precise gas mixtures and controlled environments to achieve desired material properties and production efficiencies. For instance, the transition to more efficient melting furnaces often involves increased oxygen enrichment, leading to higher consumption of industrial oxygen. According to Gerresheimer, in May 2023, the company announced an investment of approximately €80 million in two new glass furnaces scheduled to go into operation in 2024 and 2025, highlighting ongoing investment in advanced manufacturing capabilities that are inherently gas-intensive.

Key Market Challenges

The volatility in raw material and energy prices presents a significant challenge for the Global Industrial Gases for Glass Market. This instability directly elevates operational costs for glass manufacturers, affecting their profitability and ability to fund improvements. Consequently, investment in crucial gas-intensive advanced production technologies, which rely on industrial gases such as oxygen and nitrogen to enhance efficiency and product quality, is curtailed or postponed.

Key Market Trends

The growing adoption of green hydrogen for glass melting signifies a pivotal shift towards decarbonization within glass manufacturing, moving beyond traditional fossil fuels and even conventional industrial hydrogen. The integration of green hydrogen, produced via renewable electricity, directly influences the demand landscape for industrial gases by fostering a new supply chain and requiring adapted furnace designs and gas delivery systems. Glass manufacturers are actively exploring and implementing pilot projects to assess the viability and scalability of this sustainable fuel source. For instance, AGC (AGC Inc.) announced in October 2023 that it successfully conducted a demonstration test of glass production using hydrogen as fuel in an actual production furnace at its Kansai Plant in Japan.

Key Market Players

Air Products & Chemicals, Inc.

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Praxair, Inc.

Taiyo Nippon Sanso Corporation

Air Liquide SA

Gulf Cryo Holding CSC

HyGear B.V.

Iwatani Corporation

Yingde Gas Group Co. Ltd.

Messer SE & Co. KGaA

Report Scope:

In this report, the Global Industrial Gases for Glass Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Industrial Gases for Glass Market, By Type:

Hydrogen

Oxygen

Nitrogen

Argon

Acetylene

Industrial Gases for Glass Market, By Glass Type:

Container Glass

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- Flat Glass
- Glass Fiber

Industrial Gases for Glass Market, By Function:

- Forming & Melting
- Atmospheric Control
- Finishing/Polishing

Industrial Gases for Glass Market, By Transportation Mode:

- Cylinder & Packaged Gas Distribution
- Merchant Liquid Distribution
- Tonnage Distribution

Industrial Gases for Glass Market, By Region:

- North America
  - United States
  - Canada
  - Mexico
- Europe
  - France
  - United Kingdom
  - Italy
  - Germany

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Spain

Asia Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies presents in the Global Industrial Gases for Glass Market.

Available Customizations:

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Global Industrial Gases for Glass Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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