

# Global Industrial Gases for Glass Industry Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Industrial Gases for Glass Industry market size was valued at US\$ 6213 million in 2025 and is forecast to a readjusted size of US\$ 7809 million by 2032 with a CAGR of 3.7% during review period.

Global sales of Industrial Gases for Glass was about 70.21 billion m<sup>3</sup> in 2025 with average price of 0.086 USD/m<sup>3</sup>. The average gross margin of the industry is between 25%-30%. The industry is highly concentrated with Linde, Air Liquide and Air Products and Chemicals dominating the industry.

Industrial Gases for Glass are bulk or specialty gases used across glass manufacturing and processing (melting/refining, forming/float, annealing/tempering, coating, and downstream fabrication) to improve thermal efficiency and combustion control, manage furnace/float-bath atmospheres, enhance glass quality (defect reduction, consistency), and support surface treatment and production safety. Typical gases include oxygen, nitrogen, hydrogen, argon, carbon dioxide, compressed air, and fuel gases (e.g., natural gas, propane), as well as selected specialty gases for coating or processing.

Demand for industrial gases in glass is primarily driven by decarbonization and emissions compliance. Oxygen-enhanced or oxy-fuel combustion can improve furnace efficiency and combustion stability while reducing NO<sub>x</sub> and other pollutants, often supporting better glass quality and more stable operations. In float glass, the tin bath relies on a nitrogen–hydrogen protective atmosphere to prevent tin oxidation and minimize defects, creating a structurally “must-have” gas demand with high expectations on supply reliability.

Key challenges are cost and retrofit barriers, plus safety and operational complexity. Oxy-fuel conversion and atmosphere control typically require investments in gas supply (bulk delivery or on-site generation), burner/control upgrades, and tighter process management. Higher flame temperatures and heat flux can create harsher furnace conditions, raising refractory and maintenance requirements. Hydrogen use—whether as a protective component or future fuel—adds stricter safety engineering and leak-risk management, while volatile power, gas, and carbon prices complicate ROI decisions across supply modes and furnace pathways.

The technology direction is moving toward hybridization, low-carbon fuels, and smarter control. Many decarbonization roadmaps converge on hybrid furnaces combining electrification (electric boosting/melting) with oxy-gas combustion to cut emissions with a more practical cost and scalability profile than single-route options. In parallel, green hydrogen and localized supply concepts—electrolysis-based H<sub>2</sub> (with co-produced O<sub>2</sub>) and on-site oxygen/nitrogen generation—are gaining attention. On the process side, oxygen staging, advanced burners, and real-time monitoring/control are expected to further improve energy efficiency, emissions performance, and defect control.

This report is a detailed and comprehensive analysis for global Industrial Gases for Glass Industry market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

### **Key Features:**

Global Industrial Gases for Glass Industry market size and forecasts, in consumption value (\$ Million), sales quantity (M m<sup>3</sup>), and average selling prices (US\$/Cubic Meter), 2021-2032

Global Industrial Gases for Glass Industry market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (M m<sup>3</sup>), and average selling prices (US\$/Cubic Meter), 2021-2032

Global Industrial Gases for Glass Industry market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (M m<sup>3</sup>), and average selling prices (US\$/Cubic Meter), 2021-2032

Global Industrial Gases for Glass Industry market shares of main players, shipments in revenue (\$ Million), sales quantity (M m<sup>3</sup>), and ASP (US\$/Cubic Meter), 2021-2026

**The Primary Objectives in This Report Are:**

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Industrial Gases for Glass Industry

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Industrial Gases for Glass Industry market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Linde, Air Liquide, Air Products and Chemicals, Taiyo Nippon Sanso, Air Water, Messer, Yingde Gases, Gulf Cryo, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

**Market Segmentation**

Industrial Gases for Glass Industry market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

**Market segment by Type**

Oxygen

Nitrogen

Hydrogen

Argon

Helium

Others

#### Market segment by Supply Mode

Bulk Supply

On-site

Packaged & Specialty Gases

#### Market segment by Process Function

Atmospheric Gases

Process Gases

#### Market segment by Application

Container Glass

Float Glass

Fibre Glass

Specialty Glass

#### Major players covered

Linde

Air Liquide

Air Products and Chemicals

Taiyo Nippon Sanso

Air Water

Messer

Yingde Gases

Gulf Cryo

Market segment by region, regional analysis covers  
North America (United States, Canada, and Mexico)  
Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)  
Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)  
South America (Brazil, Argentina, Colombia, and Rest of South America)  
Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

**The content of the study subjects, includes a total of 15 chapters:**

Chapter 1, to describe Industrial Gases for Glass Industry product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Industrial Gases for Glass Industry, with price, sales quantity, revenue, and global market share of Industrial Gases for Glass Industry from 2021 to 2026.

Chapter 3, the Industrial Gases for Glass Industry competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Industrial Gases for Glass Industry breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales

quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Industrial Gases for Glass Industry market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Industrial Gases for Glass Industry.

Chapter 14 and 15, to describe Industrial Gases for Glass Industry sales channel, distributors, customers, research findings and conclusion.

## Contents

### 1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Industrial Gases for Glass Industry Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Oxygen

1.3.3 Nitrogen

1.3.4 Hydrogen

1.3.5 Argon

1.3.6 Helium

1.3.7 Others

1.4 Market Analysis by Supply Mode

1.4.1 Overview: Global Industrial Gases for Glass Industry Consumption Value by Supply Mode: 2021 Versus 2025 Versus 2032

1.4.2 Bulk Supply

1.4.3 On-site

1.4.4 Packaged & Specialty Gases

1.5 Market Analysis by Process Function

1.5.1 Overview: Global Industrial Gases for Glass Industry Consumption Value by Process Function: 2021 Versus 2025 Versus 2032

1.5.2 Atmospheric Gases

1.5.3 Process Gases

1.6 Market Analysis by Application

1.6.1 Overview: Global Industrial Gases for Glass Industry Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.6.2 Container Glass

1.6.3 Float Glass

1.6.4 Fibre Glass

1.6.5 Specialty Glass

1.7 Global Industrial Gases for Glass Industry Market Size & Forecast

1.7.1 Global Industrial Gases for Glass Industry Consumption Value (2021 & 2025 & 2032)

1.7.2 Global Industrial Gases for Glass Industry Sales Quantity (2021-2032)

1.7.3 Global Industrial Gases for Glass Industry Average Price (2021-2032)

## 2 MANUFACTURERS PROFILES

### 2.1 Linde

#### 2.1.1 Linde Details

#### 2.1.2 Linde Major Business

#### 2.1.3 Linde Industrial Gases for Glass Industry Product and Services

#### 2.1.4 Linde Industrial Gases for Glass Industry Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

#### 2.1.5 Linde Recent Developments/Updates

### 2.2 Air Liquide

#### 2.2.1 Air Liquide Details

#### 2.2.2 Air Liquide Major Business

#### 2.2.3 Air Liquide Industrial Gases for Glass Industry Product and Services

#### 2.2.4 Air Liquide Industrial Gases for Glass Industry Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

#### 2.2.5 Air Liquide Recent Developments/Updates

### 2.3 Air Products and Chemicals

#### 2.3.1 Air Products and Chemicals Details

#### 2.3.2 Air Products and Chemicals Major Business

#### 2.3.3 Air Products and Chemicals Industrial Gases for Glass Industry Product and Services

#### 2.3.4 Air Products and Chemicals Industrial Gases for Glass Industry Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

#### 2.3.5 Air Products and Chemicals Recent Developments/Updates

### 2.4 Taiyo Nippon Sanso

#### 2.4.1 Taiyo Nippon Sanso Details

#### 2.4.2 Taiyo Nippon Sanso Major Business

#### 2.4.3 Taiyo Nippon Sanso Industrial Gases for Glass Industry Product and Services

#### 2.4.4 Taiyo Nippon Sanso Industrial Gases for Glass Industry Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

#### 2.4.5 Taiyo Nippon Sanso Recent Developments/Updates

### 2.5 Air Water

#### 2.5.1 Air Water Details

#### 2.5.2 Air Water Major Business

#### 2.5.3 Air Water Industrial Gases for Glass Industry Product and Services

#### 2.5.4 Air Water Industrial Gases for Glass Industry Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

#### 2.5.5 Air Water Recent Developments/Updates

### 2.6 Messer

- 2.6.1 Messer Details
- 2.6.2 Messer Major Business
- 2.6.3 Messer Industrial Gases for Glass Industry Product and Services
- 2.6.4 Messer Industrial Gases for Glass Industry Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.6.5 Messer Recent Developments/Updates
- 2.7 Yingde Gases
  - 2.7.1 Yingde Gases Details
  - 2.7.2 Yingde Gases Major Business
  - 2.7.3 Yingde Gases Industrial Gases for Glass Industry Product and Services
  - 2.7.4 Yingde Gases Industrial Gases for Glass Industry Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.7.5 Yingde Gases Recent Developments/Updates
- 2.8 Gulf Cryo
  - 2.8.1 Gulf Cryo Details
  - 2.8.2 Gulf Cryo Major Business
  - 2.8.3 Gulf Cryo Industrial Gases for Glass Industry Product and Services
  - 2.8.4 Gulf Cryo Industrial Gases for Glass Industry Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.8.5 Gulf Cryo Recent Developments/Updates

### **3 COMPETITIVE ENVIRONMENT: INDUSTRIAL GASES FOR GLASS INDUSTRY BY MANUFACTURER**

- 3.1 Global Industrial Gases for Glass Industry Sales Quantity by Manufacturer (2021-2026)
- 3.2 Global Industrial Gases for Glass Industry Revenue by Manufacturer (2021-2026)
- 3.3 Global Industrial Gases for Glass Industry Average Price by Manufacturer (2021-2026)
- 3.4 Market Share Analysis (2025)
  - 3.4.1 Producer Shipments of Industrial Gases for Glass Industry by Manufacturer Revenue (\$MM) and Market Share (%): 2025
  - 3.4.2 Top 3 Industrial Gases for Glass Industry Manufacturer Market Share in 2025
  - 3.4.3 Top 6 Industrial Gases for Glass Industry Manufacturer Market Share in 2025
- 3.5 Industrial Gases for Glass Industry Market: Overall Company Footprint Analysis
  - 3.5.1 Industrial Gases for Glass Industry Market: Region Footprint
  - 3.5.2 Industrial Gases for Glass Industry Market: Company Product Type Footprint
  - 3.5.3 Industrial Gases for Glass Industry Market: Company Product Application Footprint

- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

## **4 CONSUMPTION ANALYSIS BY REGION**

- 4.1 Global Industrial Gases for Glass Industry Market Size by Region
  - 4.1.1 Global Industrial Gases for Glass Industry Sales Quantity by Region (2021-2032)
  - 4.1.2 Global Industrial Gases for Glass Industry Consumption Value by Region (2021-2032)
  - 4.1.3 Global Industrial Gases for Glass Industry Average Price by Region (2021-2032)
- 4.2 North America Industrial Gases for Glass Industry Consumption Value (2021-2032)
- 4.3 Europe Industrial Gases for Glass Industry Consumption Value (2021-2032)
- 4.4 Asia-Pacific Industrial Gases for Glass Industry Consumption Value (2021-2032)
- 4.5 South America Industrial Gases for Glass Industry Consumption Value (2021-2032)
- 4.6 Middle East & Africa Industrial Gases for Glass Industry Consumption Value (2021-2032)

## **5 MARKET SEGMENT BY TYPE**

- 5.1 Global Industrial Gases for Glass Industry Sales Quantity by Type (2021-2032)
- 5.2 Global Industrial Gases for Glass Industry Consumption Value by Type (2021-2032)
- 5.3 Global Industrial Gases for Glass Industry Average Price by Type (2021-2032)

## **6 MARKET SEGMENT BY APPLICATION**

- 6.1 Global Industrial Gases for Glass Industry Sales Quantity by Application (2021-2032)
- 6.2 Global Industrial Gases for Glass Industry Consumption Value by Application (2021-2032)
- 6.3 Global Industrial Gases for Glass Industry Average Price by Application (2021-2032)

## **7 NORTH AMERICA**

- 7.1 North America Industrial Gases for Glass Industry Sales Quantity by Type (2021-2032)
- 7.2 North America Industrial Gases for Glass Industry Sales Quantity by Application (2021-2032)
- 7.3 North America Industrial Gases for Glass Industry Market Size by Country
  - 7.3.1 North America Industrial Gases for Glass Industry Sales Quantity by Country

(2021-2032)

7.3.2 North America Industrial Gases for Glass Industry Consumption Value by Country (2021-2032)

7.3.3 United States Market Size and Forecast (2021-2032)

7.3.4 Canada Market Size and Forecast (2021-2032)

7.3.5 Mexico Market Size and Forecast (2021-2032)

## **8 EUROPE**

8.1 Europe Industrial Gases for Glass Industry Sales Quantity by Type (2021-2032)

8.2 Europe Industrial Gases for Glass Industry Sales Quantity by Application (2021-2032)

8.3 Europe Industrial Gases for Glass Industry Market Size by Country

8.3.1 Europe Industrial Gases for Glass Industry Sales Quantity by Country (2021-2032)

8.3.2 Europe Industrial Gases for Glass Industry Consumption Value by Country (2021-2032)

8.3.3 Germany Market Size and Forecast (2021-2032)

8.3.4 France Market Size and Forecast (2021-2032)

8.3.5 United Kingdom Market Size and Forecast (2021-2032)

8.3.6 Russia Market Size and Forecast (2021-2032)

8.3.7 Italy Market Size and Forecast (2021-2032)

## **9 ASIA-PACIFIC**

9.1 Asia-Pacific Industrial Gases for Glass Industry Sales Quantity by Type (2021-2032)

9.2 Asia-Pacific Industrial Gases for Glass Industry Sales Quantity by Application (2021-2032)

9.3 Asia-Pacific Industrial Gases for Glass Industry Market Size by Region

9.3.1 Asia-Pacific Industrial Gases for Glass Industry Sales Quantity by Region (2021-2032)

9.3.2 Asia-Pacific Industrial Gases for Glass Industry Consumption Value by Region (2021-2032)

9.3.3 China Market Size and Forecast (2021-2032)

9.3.4 Japan Market Size and Forecast (2021-2032)

9.3.5 South Korea Market Size and Forecast (2021-2032)

9.3.6 India Market Size and Forecast (2021-2032)

9.3.7 Southeast Asia Market Size and Forecast (2021-2032)

9.3.8 Australia Market Size and Forecast (2021-2032)

## **10 SOUTH AMERICA**

10.1 South America Industrial Gases for Glass Industry Sales Quantity by Type (2021-2032)

10.2 South America Industrial Gases for Glass Industry Sales Quantity by Application (2021-2032)

10.3 South America Industrial Gases for Glass Industry Market Size by Country

10.3.1 South America Industrial Gases for Glass Industry Sales Quantity by Country (2021-2032)

10.3.2 South America Industrial Gases for Glass Industry Consumption Value by Country (2021-2032)

10.3.3 Brazil Market Size and Forecast (2021-2032)

10.3.4 Argentina Market Size and Forecast (2021-2032)

## **11 MIDDLE EAST & AFRICA**

11.1 Middle East & Africa Industrial Gases for Glass Industry Sales Quantity by Type (2021-2032)

11.2 Middle East & Africa Industrial Gases for Glass Industry Sales Quantity by Application (2021-2032)

11.3 Middle East & Africa Industrial Gases for Glass Industry Market Size by Country

11.3.1 Middle East & Africa Industrial Gases for Glass Industry Sales Quantity by Country (2021-2032)

11.3.2 Middle East & Africa Industrial Gases for Glass Industry Consumption Value by Country (2021-2032)

11.3.3 Turkey Market Size and Forecast (2021-2032)

11.3.4 Egypt Market Size and Forecast (2021-2032)

11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)

11.3.6 South Africa Market Size and Forecast (2021-2032)

## **12 MARKET DYNAMICS**

12.1 Industrial Gases for Glass Industry Market Drivers

12.2 Industrial Gases for Glass Industry Market Restraints

12.3 Industrial Gases for Glass Industry Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

## **13 RAW MATERIAL AND INDUSTRY CHAIN**

13.1 Raw Material of Industrial Gases for Glass Industry and Key Manufacturers

13.2 Manufacturing Costs Percentage of Industrial Gases for Glass Industry

13.3 Industrial Gases for Glass Industry Production Process

13.4 Industry Value Chain Analysis

## **14 SHIPMENTS BY DISTRIBUTION CHANNEL**

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 Industrial Gases for Glass Industry Typical Distributors

14.3 Industrial Gases for Glass Industry Typical Customers

## **15 RESEARCH FINDINGS AND CONCLUSION**

## **16 APPENDIX**

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

## List Of Tables

### LIST OF TABLES

- Table 1. Global Industrial Gases for Glass Industry Consumption Value by Type, (USD Million), 2021 & 2025 & 2032
- Table 2. Global Industrial Gases for Glass Industry Consumption Value by Supply Mode, (USD Million), 2021 & 2025 & 2032
- Table 3. Global Industrial Gases for Glass Industry Consumption Value by Process Function, (USD Million), 2021 & 2025 & 2032
- Table 4. Global Industrial Gases for Glass Industry Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Table 5. Linde Basic Information, Manufacturing Base and Competitors
- Table 6. Linde Major Business
- Table 7. Linde Industrial Gases for Glass Industry Product and Services
- Table 8. Linde Industrial Gases for Glass Industry Sales Quantity (M m<sup>3</sup>), Average Price (US\$/Cubic Meter), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 9. Linde Recent Developments/Updates
- Table 10. Air Liquide Basic Information, Manufacturing Base and Competitors
- Table 11. Air Liquide Major Business
- Table 12. Air Liquide Industrial Gases for Glass Industry Product and Services
- Table 13. Air Liquide Industrial Gases for Glass Industry Sales Quantity (M m<sup>3</sup>), Average Price (US\$/Cubic Meter), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 14. Air Liquide Recent Developments/Updates
- Table 15. Air Products and Chemicals Basic Information, Manufacturing Base and Competitors
- Table 16. Air Products and Chemicals Major Business
- Table 17. Air Products and Chemicals Industrial Gases for Glass Industry Product and Services
- Table 18. Air Products and Chemicals Industrial Gases for Glass Industry Sales Quantity (M m<sup>3</sup>), Average Price (US\$/Cubic Meter), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 19. Air Products and Chemicals Recent Developments/Updates
- Table 20. Taiyo Nippon Sanso Basic Information, Manufacturing Base and Competitors
- Table 21. Taiyo Nippon Sanso Major Business
- Table 22. Taiyo Nippon Sanso Industrial Gases for Glass Industry Product and Services
- Table 23. Taiyo Nippon Sanso Industrial Gases for Glass Industry Sales Quantity (M

m?), Average Price (US\$/Cubic Meter), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 24. Taiyo Nippon Sanso Recent Developments/Updates

Table 25. Air Water Basic Information, Manufacturing Base and Competitors

Table 26. Air Water Major Business

Table 27. Air Water Industrial Gases for Glass Industry Product and Services

Table 28. Air Water Industrial Gases for Glass Industry Sales Quantity (M m?), Average Price (US\$/Cubic Meter), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 29. Air Water Recent Developments/Updates

Table 30. Messer Basic Information, Manufacturing Base and Competitors

Table 31. Messer Major Business

Table 32. Messer Industrial Gases for Glass Industry Product and Services

Table 33. Messer Industrial Gases for Glass Industry Sales Quantity (M m?), Average Price (US\$/Cubic Meter), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 34. Messer Recent Developments/Updates

Table 35. Yingde Gases Basic Information, Manufacturing Base and Competitors

Table 36. Yingde Gases Major Business

Table 37. Yingde Gases Industrial Gases for Glass Industry Product and Services

Table 38. Yingde Gases Industrial Gases for Glass Industry Sales Quantity (M m?), Average Price (US\$/Cubic Meter), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 39. Yingde Gases Recent Developments/Updates

Table 40. Gulf Cryo Basic Information, Manufacturing Base and Competitors

Table 41. Gulf Cryo Major Business

Table 42. Gulf Cryo Industrial Gases for Glass Industry Product and Services

Table 43. Gulf Cryo Industrial Gases for Glass Industry Sales Quantity (M m?), Average Price (US\$/Cubic Meter), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 44. Gulf Cryo Recent Developments/Updates

Table 45. Global Industrial Gases for Glass Industry Sales Quantity by Manufacturer (2021-2026) & (M m?)

Table 46. Global Industrial Gases for Glass Industry Revenue by Manufacturer (2021-2026) & (USD Million)

Table 47. Global Industrial Gases for Glass Industry Average Price by Manufacturer (2021-2026) & (US\$/Cubic Meter)

Table 48. Market Position of Manufacturers in Industrial Gases for Glass Industry, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 49. Head Office and Industrial Gases for Glass Industry Production Site of Key Manufacturer

Table 50. Industrial Gases for Glass Industry Market: Company Product Type Footprint

Table 51. Industrial Gases for Glass Industry Market: Company Product Application Footprint

Table 52. Industrial Gases for Glass Industry New Market Entrants and Barriers to Market Entry

Table 53. Industrial Gases for Glass Industry Mergers, Acquisition, Agreements, and Collaborations

Table 54. Global Industrial Gases for Glass Industry Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 55. Global Industrial Gases for Glass Industry Sales Quantity by Region (2021-2026) & (M m?)

Table 56. Global Industrial Gases for Glass Industry Sales Quantity by Region (2027-2032) & (M m?)

Table 57. Global Industrial Gases for Glass Industry Consumption Value by Region (2021-2026) & (USD Million)

Table 58. Global Industrial Gases for Glass Industry Consumption Value by Region (2027-2032) & (USD Million)

Table 59. Global Industrial Gases for Glass Industry Average Price by Region (2021-2026) & (US\$/Cubic Meter)

Table 60. Global Industrial Gases for Glass Industry Average Price by Region (2027-2032) & (US\$/Cubic Meter)

Table 61. Global Industrial Gases for Glass Industry Sales Quantity by Type (2021-2026) & (M m?)

Table 62. Global Industrial Gases for Glass Industry Sales Quantity by Type (2027-2032) & (M m?)

Table 63. Global Industrial Gases for Glass Industry Consumption Value by Type (2021-2026) & (USD Million)

Table 64. Global Industrial Gases for Glass Industry Consumption Value by Type (2027-2032) & (USD Million)

Table 65. Global Industrial Gases for Glass Industry Average Price by Type (2021-2026) & (US\$/Cubic Meter)

Table 66. Global Industrial Gases for Glass Industry Average Price by Type (2027-2032) & (US\$/Cubic Meter)

Table 67. Global Industrial Gases for Glass Industry Sales Quantity by Application (2021-2026) & (M m?)

Table 68. Global Industrial Gases for Glass Industry Sales Quantity by Application (2027-2032) & (M m?)

Table 69. Global Industrial Gases for Glass Industry Consumption Value by Application (2021-2026) & (USD Million)

Table 70. Global Industrial Gases for Glass Industry Consumption Value by Application (2027-2032) & (USD Million)

Table 71. Global Industrial Gases for Glass Industry Average Price by Application (2021-2026) & (US\$/Cubic Meter)

Table 72. Global Industrial Gases for Glass Industry Average Price by Application (2027-2032) & (US\$/Cubic Meter)

Table 73. North America Industrial Gases for Glass Industry Sales Quantity by Type (2021-2026) & (M m<sup>3</sup>)

Table 74. North America Industrial Gases for Glass Industry Sales Quantity by Type (2027-2032) & (M m<sup>3</sup>)

Table 75. North America Industrial Gases for Glass Industry Sales Quantity by Application (2021-2026) & (M m<sup>3</sup>)

Table 76. North America Industrial Gases for Glass Industry Sales Quantity by Application (2027-2032) & (M m<sup>3</sup>)

Table 77. North America Industrial Gases for Glass Industry Sales Quantity by Country (2021-2026) & (M m<sup>3</sup>)

Table 78. North America Industrial Gases for Glass Industry Sales Quantity by Country (2027-2032) & (M m<sup>3</sup>)

Table 79. North America Industrial Gases for Glass Industry Consumption Value by Country (2021-2026) & (USD Million)

Table 80. North America Industrial Gases for Glass Industry Consumption Value by Country (2027-2032) & (USD Million)

Table 81. Europe Industrial Gases for Glass Industry Sales Quantity by Type (2021-2026) & (M m<sup>3</sup>)

Table 82. Europe Industrial Gases for Glass Industry Sales Quantity by Type (2027-2032) & (M m<sup>3</sup>)

Table 83. Europe Industrial Gases for Glass Industry Sales Quantity by Application (2021-2026) & (M m<sup>3</sup>)

Table 84. Europe Industrial Gases for Glass Industry Sales Quantity by Application (2027-2032) & (M m<sup>3</sup>)

Table 85. Europe Industrial Gases for Glass Industry Sales Quantity by Country (2021-2026) & (M m<sup>3</sup>)

Table 86. Europe Industrial Gases for Glass Industry Sales Quantity by Country (2027-2032) & (M m<sup>3</sup>)

Table 87. Europe Industrial Gases for Glass Industry Consumption Value by Country (2021-2026) & (USD Million)

Table 88. Europe Industrial Gases for Glass Industry Consumption Value by Country

(2027-2032) & (USD Million)

Table 89. Asia-Pacific Industrial Gases for Glass Industry Sales Quantity by Type (2021-2026) & (M m?)

Table 90. Asia-Pacific Industrial Gases for Glass Industry Sales Quantity by Type (2027-2032) & (M m?)

Table 91. Asia-Pacific Industrial Gases for Glass Industry Sales Quantity by Application (2021-2026) & (M m?)

Table 92. Asia-Pacific Industrial Gases for Glass Industry Sales Quantity by Application (2027-2032) & (M m?)

Table 93. Asia-Pacific Industrial Gases for Glass Industry Sales Quantity by Region (2021-2026) & (M m?)

Table 94. Asia-Pacific Industrial Gases for Glass Industry Sales Quantity by Region (2027-2032) & (M m?)

Table 95. Asia-Pacific Industrial Gases for Glass Industry Consumption Value by Region (2021-2026) & (USD Million)

Table 96. Asia-Pacific Industrial Gases for Glass Industry Consumption Value by Region (2027-2032) & (USD Million)

Table 97. South America Industrial Gases for Glass Industry Sales Quantity by Type (2021-2026) & (M m?)

Table 98. South America Industrial Gases for Glass Industry Sales Quantity by Type (2027-2032) & (M m?)

Table 99. South America Industrial Gases for Glass Industry Sales Quantity by Application (2021-2026) & (M m?)

Table 100. South America Industrial Gases for Glass Industry Sales Quantity by Application (2027-2032) & (M m?)

Table 101. South America Industrial Gases for Glass Industry Sales Quantity by Country (2021-2026) & (M m?)

Table 102. South America Industrial Gases for Glass Industry Sales Quantity by Country (2027-2032) & (M m?)

Table 103. South America Industrial Gases for Glass Industry Consumption Value by Country (2021-2026) & (USD Million)

Table 104. South America Industrial Gases for Glass Industry Consumption Value by Country (2027-2032) & (USD Million)

Table 105. Middle East & Africa Industrial Gases for Glass Industry Sales Quantity by Type (2021-2026) & (M m?)

Table 106. Middle East & Africa Industrial Gases for Glass Industry Sales Quantity by Type (2027-2032) & (M m?)

Table 107. Middle East & Africa Industrial Gases for Glass Industry Sales Quantity by Application (2021-2026) & (M m?)

Table 108. Middle East & Africa Industrial Gases for Glass Industry Sales Quantity by Application (2027-2032) & (M m<sup>3</sup>)

Table 109. Middle East & Africa Industrial Gases for Glass Industry Sales Quantity by Country (2021-2026) & (M m<sup>3</sup>)

Table 110. Middle East & Africa Industrial Gases for Glass Industry Sales Quantity by Country (2027-2032) & (M m<sup>3</sup>)

Table 111. Middle East & Africa Industrial Gases for Glass Industry Consumption Value by Country (2021-2026) & (USD Million)

Table 112. Middle East & Africa Industrial Gases for Glass Industry Consumption Value by Country (2027-2032) & (USD Million)

Table 113. Industrial Gases for Glass Industry Raw Material

Table 114. Key Manufacturers of Industrial Gases for Glass Industry Raw Materials

Table 115. Industrial Gases for Glass Industry Typical Distributors

Table 116. Industrial Gases for Glass Industry Typical Customers

## List Of Figures

### LIST OF FIGURES

Figure 1. Industrial Gases for Glass Industry Picture

Figure 2. Global Industrial Gases for Glass Industry Revenue by Type, (USD Million), 2021 & 2025 & 2032

Figure 3. Global Industrial Gases for Glass Industry Revenue Market Share by Type in 2025

Figure 4. Oxygen Examples

Figure 5. Nitrogen Examples

Figure 6. Hydrogen Examples

Figure 7. Argon Examples

Figure 8. Helium Examples

Figure 9. Others Examples

Figure 10. Global Industrial Gases for Glass Industry Revenue by Supply Mode, (USD Million), 2021 & 2025 & 2032

Figure 11. Global Industrial Gases for Glass Industry Revenue Market Share by Supply Mode in 2025

Figure 12. Bulk Supply Examples

Figure 13. On-site Examples

Figure 14. Packaged & Specialty Gases Examples

Figure 15. Global Industrial Gases for Glass Industry Revenue by Process Function, (USD Million), 2021 & 2025 & 2032

Figure 16. Global Industrial Gases for Glass Industry Revenue Market Share by Process Function in 2025

Figure 17. Atmospheric Gases Examples

Figure 18. Process Gases Examples

Figure 19. Global Industrial Gases for Glass Industry Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 20. Global Industrial Gases for Glass Industry Revenue Market Share by Application in 2025

Figure 21. Container Glass Examples

Figure 22. Float Glass Examples

Figure 23. Fibre Glass Examples

Figure 24. Specialty Glass Examples

Figure 25. Global Industrial Gases for Glass Industry Consumption Value, (USD Million): 2021 & 2025 & 2032

Figure 26. Global Industrial Gases for Glass Industry Consumption Value and Forecast

(2021-2032) & (USD Million)

Figure 27. Global Industrial Gases for Glass Industry Sales Quantity (2021-2032) & (M m?)

Figure 28. Global Industrial Gases for Glass Industry Price (2021-2032) & (US\$/Cubic Meter)

Figure 29. Global Industrial Gases for Glass Industry Sales Quantity Market Share by Manufacturer in 2025

Figure 30. Global Industrial Gases for Glass Industry Revenue Market Share by Manufacturer in 2025

Figure 31. Producer Shipments of Industrial Gases for Glass Industry by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 32. Top 3 Industrial Gases for Glass Industry Manufacturer (Revenue) Market Share in 2025

Figure 33. Top 6 Industrial Gases for Glass Industry Manufacturer (Revenue) Market Share in 2025

Figure 34. Global Industrial Gases for Glass Industry Sales Quantity Market Share by Region (2021-2032)

Figure 35. Global Industrial Gases for Glass Industry Consumption Value Market Share by Region (2021-2032)

Figure 36. North America Industrial Gases for Glass Industry Consumption Value (2021-2032) & (USD Million)

Figure 37. Europe Industrial Gases for Glass Industry Consumption Value (2021-2032) & (USD Million)

Figure 38. Asia-Pacific Industrial Gases for Glass Industry Consumption Value (2021-2032) & (USD Million)

Figure 39. South America Industrial Gases for Glass Industry Consumption Value (2021-2032) & (USD Million)

Figure 40. Middle East & Africa Industrial Gases for Glass Industry Consumption Value (2021-2032) & (USD Million)

Figure 41. Global Industrial Gases for Glass Industry Sales Quantity Market Share by Type (2021-2032)

Figure 42. Global Industrial Gases for Glass Industry Consumption Value Market Share by Type (2021-2032)

Figure 43. Global Industrial Gases for Glass Industry Average Price by Type (2021-2032) & (US\$/Cubic Meter)

Figure 44. Global Industrial Gases for Glass Industry Sales Quantity Market Share by Application (2021-2032)

Figure 45. Global Industrial Gases for Glass Industry Revenue Market Share by Application (2021-2032)

Figure 46. Global Industrial Gases for Glass Industry Average Price by Application (2021-2032) & (US\$/Cubic Meter)

Figure 47. North America Industrial Gases for Glass Industry Sales Quantity Market Share by Type (2021-2032)

Figure 48. North America Industrial Gases for Glass Industry Sales Quantity Market Share by Application (2021-2032)

Figure 49. North America Industrial Gases for Glass Industry Sales Quantity Market Share by Country (2021-2032)

Figure 50. North America Industrial Gases for Glass Industry Consumption Value Market Share by Country (2021-2032)

Figure 51. United States Industrial Gases for Glass Industry Consumption Value (2021-2032) & (USD Million)

Figure 52. Canada Industrial Gases for Glass Industry Consumption Value (2021-2032) & (USD Million)

Figure 53. Mexico Industrial Gases for Glass Industry Consumption Value (2021-2032) & (USD Million)

Figure 54. Europe Industrial Gases for Glass Industry Sales Quantity Market Share by Type (2021-2032)

Figure 55. Europe Industrial Gases for Glass Industry Sales Quantity Market Share by Application (2021-2032)

Figure 56. Europe Industrial Gases for Glass Industry Sales Quantity Market Share by Country (2021-2032)

Figure 57. Europe Industrial Gases for Glass Industry Consumption Value Market Share by Country (2021-2032)

Figure 58. Germany Industrial Gases for Glass Industry Consumption Value (2021-2032) & (USD Million)

Figure 59. France Industrial Gases for Glass Industry Consumption Value (2021-2032) & (USD Million)

Figure 60. United Kingdom Industrial Gases for Glass Industry Consumption Value (2021-2032) & (USD Million)

Figure 61. Russia Industrial Gases for Glass Industry Consumption Value (2021-2032) & (USD Million)

Figure 62. Italy Industrial Gases for Glass Industry Consumption Value (2021-2032) & (USD Million)

Figure 63. Asia-Pacific Industrial Gases for Glass Industry Sales Quantity Market Share by Type (2021-2032)

Figure 64. Asia-Pacific Industrial Gases for Glass Industry Sales Quantity Market Share by Application (2021-2032)

Figure 65. Asia-Pacific Industrial Gases for Glass Industry Sales Quantity Market Share

by Region (2021-2032)

Figure 66. Asia-Pacific Industrial Gases for Glass Industry Consumption Value Market Share by Region (2021-2032)

Figure 67. China Industrial Gases for Glass Industry Consumption Value (2021-2032) & (USD Million)

Figure 68. Japan Industrial Gases for Glass Industry Consumption Value (2021-2032) & (USD Million)

Figure 69. South Korea Industrial Gases for Glass Industry Consumption Value (2021-2032) & (USD Million)

Figure 70. India Industrial Gases for Glass Industry Consumption Value (2021-2032) & (USD Million)

Figure 71. Southeast Asia Industrial Gases for Glass Industry Consumption Value (2021-2032) & (USD Million)

Figure 72. Australia Industrial Gases for Glass Industry Consumption Value (2021-2032) & (USD Million)

Figure 73. South America Industrial Gases for Glass Industry Sales Quantity Market Share by Type (2021-2032)

Figure 74. South America Industrial Gases for Glass Industry Sales Quantity Market Share by Application (2021-2032)

Figure 75. South America Industrial Gases for Glass Industry Sales Quantity Market Share by Country (2021-2032)

Figure 76. South America Industrial Gases for Glass Industry Consumption Value Market Share by Country (2021-2032)

Figure 77. Brazil Industrial Gases for Glass Industry Consumption Value (2021-2032) & (USD Million)

Figure 78. Argentina Industrial Gases for Glass Industry Consumption Value (2021-2032) & (USD Million)

Figure 79. Middle East & Africa Industrial Gases for Glass Industry Sales Quantity Market Share by Type (2021-2032)

Figure 80. Middle East & Africa Industrial Gases for Glass Industry Sales Quantity Market Share by Application (2021-2032)

Figure 81. Middle East & Africa Industrial Gases for Glass Industry Sales Quantity Market Share by Country (2021-2032)

Figure 82. Middle East & Africa Industrial Gases for Glass Industry Consumption Value Market Share by Country (2021-2032)

Figure 83. Turkey Industrial Gases for Glass Industry Consumption Value (2021-2032) & (USD Million)

Figure 84. Egypt Industrial Gases for Glass Industry Consumption Value (2021-2032) & (USD Million)

Figure 85. Saudi Arabia Industrial Gases for Glass Industry Consumption Value (2021-2032) & (USD Million)

Figure 86. South Africa Industrial Gases for Glass Industry Consumption Value (2021-2032) & (USD Million)

Figure 87. Industrial Gases for Glass Industry Market Drivers

Figure 88. Industrial Gases for Glass Industry Market Restraints

Figure 89. Industrial Gases for Glass Industry Market Trends

Figure 90. Porters Five Forces Analysis

Figure 91. Manufacturing Cost Structure Analysis of Industrial Gases for Glass Industry in 2025

Figure 92. Manufacturing Process Analysis of Industrial Gases for Glass Industry

Figure 93. Industrial Gases for Glass Industry Industrial Chain

Figure 94. Sales Channel: Direct to End-User vs Distributors

Figure 95. Direct Channel Pros & Cons

Figure 96. Indirect Channel Pros & Cons

Figure 97. Methodology

Figure 98. Research Process and Data Source

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