

Global Electronic Grade Argon Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Electronic Grade Argon market size is expected to reach \$ 263 million by 2032, rising at a market growth of 6.6% CAGR during the forecast period (2026-2032).

In 2025, global sales volume of electronic grade argon reached approximately 132,000 tonnes, with an average global market price of around \$1,250 per tonne. That year, total effective global production capacity for electronic-grade argon hit approximately 165,000 tonnes, and the industry's average gross profit margin reached about 38%. Electronic grade argon is a high-purity inert gas (chemical formula: Ar) that has undergone deep purification for use in the semiconductor and electronics manufacturing sectors. It typically boasts a purity level ranging from 99.999% (5N) to 99.9999% (6N) or higher, with strict controls on impurities such as oxygen, moisture, nitrogen, hydrogen, carbon monoxide, carbon dioxide, hydrocarbons, and particulates. Characterized by chemical stability, low reactivity, and the ability to readily form stable plasmas, it serves primarily as a protective, purging, and carrier gas, as well as a medium for sputtering and plasma-based processes.

The upstream sector encompasses air resources, air separation equipment, electric power, purification materials, and packaging, storage, and transportation equipment. Argon constitutes approximately 0.93% of the air by volume; industrial production typically involves extracting crude argon from air via large-scale cryogenic air separation units, followed by further purification using catalysts, molecular sieves, adsorbents, and high-purity piping materials. Upstream costs are driven largely by the electricity consumed during air compression and cryogenic distillation, alongside ancillary products such as cryogenic storage tanks, gas cylinders, valves, cylinder inner-wall treatment materials, and gas analysis instruments. The midstream sector covers the production, purification, testing, filling, and supply of electronic-grade argon. Crude

argon must undergo processes such as deoxygenation, dehydrogenation, dehydration, rectification, adsorption, or getter purification to meet the stringent requirements of the electronics industry. Manufacturers employ gas chromatographs, trace moisture analyzers, and trace oxygen analyzers to detect impurities, and carry out cylinder filling or liquid argon tanker supply under clean-room conditions. Depending on customer consumption needs, electronic-grade argon can be delivered via high-pressure cylinders, gas cylinder bundles, liquid argon storage tanks, or centralized on-site gas supply systems. Downstream applications primarily span wafer manufacturing, semiconductor packaging and testing, flat-panel displays, photovoltaic cells, LEDs, electronic components, and scientific research and analysis. In semiconductor manufacturing, electronic-grade argon is utilized for physical vapor deposition, magnetron sputtering, plasma etching, ion implantation, chamber purging, and process protection at high temperatures; in the production of display panels, photovoltaics, and LEDs, it is primarily used for thin-film deposition, material sputtering, and maintaining inert atmospheres. With the capacity expansion of advanced manufacturing processes, third-generation semiconductors, and high-end displays, downstream requirements regarding argon purity, impurity stability, and continuous supply capabilities will become increasingly stringent.

The expansion of global semiconductor production capacity is the primary driver of the growing demand for electronic-grade argon. The rapid development of AI servers, high-bandwidth memory (HBM), advanced logic chips, and automotive electronics is fueling the continuous construction of wafer fabs and advanced packaging lines. Electronic-grade argon is widely used in processes such as physical vapor deposition (PVD), magnetron sputtering, plasma etching, ion implantation, chamber purging, and wafer cleaning; the increase in advanced process steps and wafer starts will drive up argon consumption per production line.

Developments in display panels, photovoltaic cells, LEDs, and third-generation semiconductors have further broadened the demand base for electronic-grade argon. In the manufacturing of OLEDs, Mini/Micro LEDs, silicon carbide (SiC), and gallium nitride (GaN) devices, argon is primarily used for thin-film deposition, crystal growth, inert atmosphere protection, and material surface treatment. Technologically, electronic-grade argon is evolving toward ultra-high purity, lower impurity levels, and in-line quality monitoring. Mainstream products will shift from 5N purity toward 6N and higher grades, while control standards for moisture, oxygen, nitrogen, hydrocarbons, and particulates will advance from the ppm level to the ppb level. Gas suppliers must strengthen capabilities in deep purification, clean filling, ultra-trace detection, and high-purity pipeline management, while utilizing digital monitoring systems for real-time

management of flow rates, pressure, purity, and inventory.

Supply models will gradually shift from traditional cylinder distribution to "on-site generation or centralized purification + storage tank supply + high-purity pipeline delivery." Large wafer fabs tend to sign long-term supply contracts with industrial gas companies and construct air separation and purification units on-site or near industrial parks to enhance supply security and reduce transportation costs. As argon is a byproduct of air separation, its supply is also influenced by oxygen and nitrogen production volumes and electricity costs; consequently, the industry will increasingly prioritize energy-efficient air separation technologies, regional capacity distribution, the use of renewable energy, and the recovery and repurification of exhaust gases.

Report Scope

This report studies the global Electronic Grade Argon production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Electronic Grade Argon 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 Electronic Grade Argon that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Electronic Grade Argon total production and demand, 2021-2032, (Tons)

Global Electronic Grade Argon total production value, 2021-2032, (USD Million)

Global Electronic Grade Argon production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Electronic Grade Argon consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Electronic Grade Argon domestic production, consumption, key domestic manufacturers and share

Global Electronic Grade Argon production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Electronic Grade Argon production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Electronic Grade Argon production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Electronic Grade Argon 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 Linde Gas, Air Liquide, Air Products, Supagas, Prax Air, Ozarc Gas, Hangzhou Hangyang Co.,Ltd., WestAir Gases, Messer Group, Huate Gas, 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 Electronic Grade Argon market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) 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 Electronic Grade Argon Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Electronic Grade Argon Market, Segmentation by Type:

4N

5N

Others

Global Electronic Grade Argon Market, Segmentation by Product Form:

Gas

Liquid

Global Electronic Grade Argon Market, Segmentation by Preparation Source:

Direct Purification from Air Separation

Repurification of Industrial-grade Argon

Regeneration and Purification of Recovered Argon

Global Electronic Grade Argon Market, Segmentation by Process:

Sputter Deposition

Plasma Etching

Ion Implantation

Purge/Protection

Crystal Growth

Others

Global Electronic Grade Argon Market, Segmentation by Application:

LED

Semiconductor

Photovoltaics

Others

Companies Profiled:

Linde Gas

Air Liquide

Air Products

Supagas

Prax Air

Ozarc Gas

Hangzhou Hangyang Co.,Ltd.

WestAir Gases

Messer Group

Huate Gas

Baoding North SPECIAL Gases Co., Ltd.

Guangzhou Guanggang Gases & Energy Co.,Ltd.

Key Questions Answered

1. How big is the global Electronic Grade Argon market?
2. What is the demand of the global Electronic Grade Argon market?
3. What is the year over year growth of the global Electronic Grade Argon market?
4. What is the total value of the global Electronic Grade Argon market?
5. Who are the Major Players in the global Electronic Grade Argon market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Electronic Grade Argon Introduction
- 1.2 World Electronic Grade Argon Supply & Forecast
 - 1.2.1 World Electronic Grade Argon Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Electronic Grade Argon Production (2021-2032)
 - 1.2.3 World Electronic Grade Argon Pricing Trends (2021-2032)
- 1.3 World Electronic Grade Argon Production by Region (Based on Production Site)
 - 1.3.1 World Electronic Grade Argon Production Value by Region (2021-2032)
 - 1.3.2 World Electronic Grade Argon Production by Region (2021-2032)
 - 1.3.3 World Electronic Grade Argon Average Price by Region (2021-2032)
 - 1.3.4 North America Electronic Grade Argon Production (2021-2032)
 - 1.3.5 Europe Electronic Grade Argon Production (2021-2032)
 - 1.3.6 China Electronic Grade Argon Production (2021-2032)
 - 1.3.7 Japan Electronic Grade Argon Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Electronic Grade Argon Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Electronic Grade Argon Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Electronic Grade Argon Demand (2021-2032)
- 2.2 World Electronic Grade Argon Consumption by Region
 - 2.2.1 World Electronic Grade Argon Consumption by Region (2021-2026)
 - 2.2.2 World Electronic Grade Argon Consumption Forecast by Region (2027-2032)
- 2.3 United States Electronic Grade Argon Consumption (2021-2032)
- 2.4 China Electronic Grade Argon Consumption (2021-2032)
- 2.5 Europe Electronic Grade Argon Consumption (2021-2032)
- 2.6 Japan Electronic Grade Argon Consumption (2021-2032)
- 2.7 South Korea Electronic Grade Argon Consumption (2021-2032)
- 2.8 ASEAN Electronic Grade Argon Consumption (2021-2032)
- 2.9 India Electronic Grade Argon Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Electronic Grade Argon Production Value by Manufacturer (2021-2026)

- 3.2 World Electronic Grade Argon Production by Manufacturer (2021-2026)
- 3.3 World Electronic Grade Argon Average Price by Manufacturer (2021-2026)
- 3.4 Electronic Grade Argon Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Electronic Grade Argon Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Electronic Grade Argon in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Electronic Grade Argon in 2025
- 3.6 Electronic Grade Argon Market: Overall Company Footprint Analysis
 - 3.6.1 Electronic Grade Argon Market: Region Footprint
 - 3.6.2 Electronic Grade Argon Market: Company Product Type Footprint
 - 3.6.3 Electronic Grade Argon Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Electronic Grade Argon Production Value Comparison
 - 4.1.1 United States VS China: Electronic Grade Argon Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Electronic Grade Argon Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Electronic Grade Argon Production Comparison
 - 4.2.1 United States VS China: Electronic Grade Argon Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Electronic Grade Argon Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Electronic Grade Argon Consumption Comparison
 - 4.3.1 United States VS China: Electronic Grade Argon Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Electronic Grade Argon Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Electronic Grade Argon Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based Electronic Grade Argon Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Electronic Grade Argon Production Value (2021-2026)

4.4.3 United States Based Manufacturers Electronic Grade Argon Production (2021-2026)

4.5 China Based Electronic Grade Argon Manufacturers and Market Share

4.5.1 China Based Electronic Grade Argon Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Electronic Grade Argon Production Value (2021-2026)

4.5.3 China Based Manufacturers Electronic Grade Argon Production (2021-2026)

4.6 Rest of World Based Electronic Grade Argon Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Electronic Grade Argon Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Electronic Grade Argon Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Electronic Grade Argon Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Electronic Grade Argon Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 4N

5.2.2 5N

5.2.3 Others

5.3 Market Segment by Type

5.3.1 World Electronic Grade Argon Production by Type (2021-2032)

5.3.2 World Electronic Grade Argon Production Value by Type (2021-2032)

5.3.3 World Electronic Grade Argon Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY PRODUCT FORM

6.1 World Electronic Grade Argon Market Size Overview by Product Form: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Product Form

6.2.1 Gas

6.2.2 Liquid

6.3 Market Segment by Product Form

6.3.1 World Electronic Grade Argon Production by Product Form (2021-2032)

6.3.2 World Electronic Grade Argon Production Value by Product Form (2021-2032)

6.3.3 World Electronic Grade Argon Average Price by Product Form (2021-2032)

7 MARKET ANALYSIS BY PREPARATION SOURCE

7.1 World Electronic Grade Argon Market Size Overview by Preparation Source: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Preparation Source

7.2.1 Direct Purification from Air Separation

7.2.2 Repurification of Industrial-grade Argon

7.2.3 Regeneration and Purification of Recovered Argon

7.3 Market Segment by Preparation Source

7.3.1 World Electronic Grade Argon Production by Preparation Source (2021-2032)

7.3.2 World Electronic Grade Argon Production Value by Preparation Source (2021-2032)

7.3.3 World Electronic Grade Argon Average Price by Preparation Source (2021-2032)

8 MARKET ANALYSIS BY PROCESS

8.1 World Electronic Grade Argon Market Size Overview by Process: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Process

8.2.1 Sputter Deposition

8.2.2 Plasma Etching

8.2.3 Ion Implantation

8.2.4 Purge/Protection

8.2.5 Crystal Growth

8.2.6 Others

8.3 Market Segment by Process

8.3.1 World Electronic Grade Argon Production by Process (2021-2032)

8.3.2 World Electronic Grade Argon Production Value by Process (2021-2032)

8.3.3 World Electronic Grade Argon Average Price by Process (2021-2032)

9 MARKET ANALYSIS BY APPLICATION

9.1 World Electronic Grade Argon Market Size Overview by Application: 2021 VS 2025 VS 2032

9.2 Segment Introduction by Application

9.2.1 LED

9.2.2 Semiconductor

9.2.3 Photovoltaics

9.2.4 Others

9.3 Market Segment by Application

9.3.1 World Electronic Grade Argon Production by Application (2021-2032)

9.3.2 World Electronic Grade Argon Production Value by Application (2021-2032)

9.3.3 World Electronic Grade Argon Average Price by Application (2021-2032)

10 COMPANY PROFILES

10.1 Linde Gas

10.1.1 Linde Gas Details

10.1.2 Linde Gas Major Business

10.1.3 Linde Gas Electronic Grade Argon Product and Services

10.1.4 Linde Gas Electronic Grade Argon Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.1.5 Linde Gas Recent Developments/Updates

10.1.6 Linde Gas Competitive Strengths & Weaknesses

10.2 Air Liquide

10.2.1 Air Liquide Details

10.2.2 Air Liquide Major Business

10.2.3 Air Liquide Electronic Grade Argon Product and Services

10.2.4 Air Liquide Electronic Grade Argon Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.2.5 Air Liquide Recent Developments/Updates

10.2.6 Air Liquide Competitive Strengths & Weaknesses

10.3 Air Products

10.3.1 Air Products Details

10.3.2 Air Products Major Business

10.3.3 Air Products Electronic Grade Argon Product and Services

10.3.4 Air Products Electronic Grade Argon Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.3.5 Air Products Recent Developments/Updates

10.3.6 Air Products Competitive Strengths & Weaknesses

10.4 Supagas

10.4.1 Supagas Details

10.4.2 Supagas Major Business

- 10.4.3 Supagas Electronic Grade Argon Product and Services
- 10.4.4 Supagas Electronic Grade Argon Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 10.4.5 Supagas Recent Developments/Updates
- 10.4.6 Supagas Competitive Strengths & Weaknesses
- 10.5 Prax Air
 - 10.5.1 Prax Air Details
 - 10.5.2 Prax Air Major Business
 - 10.5.3 Prax Air Electronic Grade Argon Product and Services
 - 10.5.4 Prax Air Electronic Grade Argon Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.5.5 Prax Air Recent Developments/Updates
 - 10.5.6 Prax Air Competitive Strengths & Weaknesses
- 10.6 Ozarc Gas
 - 10.6.1 Ozarc Gas Details
 - 10.6.2 Ozarc Gas Major Business
 - 10.6.3 Ozarc Gas Electronic Grade Argon Product and Services
 - 10.6.4 Ozarc Gas Electronic Grade Argon Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.6.5 Ozarc Gas Recent Developments/Updates
 - 10.6.6 Ozarc Gas Competitive Strengths & Weaknesses
- 10.7 Hangzhou Hangyang Co.,Ltd.
 - 10.7.1 Hangzhou Hangyang Co.,Ltd. Details
 - 10.7.2 Hangzhou Hangyang Co.,Ltd. Major Business
 - 10.7.3 Hangzhou Hangyang Co.,Ltd. Electronic Grade Argon Product and Services
 - 10.7.4 Hangzhou Hangyang Co.,Ltd. Electronic Grade Argon Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.7.5 Hangzhou Hangyang Co.,Ltd. Recent Developments/Updates
 - 10.7.6 Hangzhou Hangyang Co.,Ltd. Competitive Strengths & Weaknesses
- 10.8 WestAir Gases
 - 10.8.1 WestAir Gases Details
 - 10.8.2 WestAir Gases Major Business
 - 10.8.3 WestAir Gases Electronic Grade Argon Product and Services
 - 10.8.4 WestAir Gases Electronic Grade Argon Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.8.5 WestAir Gases Recent Developments/Updates
 - 10.8.6 WestAir Gases Competitive Strengths & Weaknesses
- 10.9 Messer Group
 - 10.9.1 Messer Group Details

- 10.9.2 Messer Group Major Business
- 10.9.3 Messer Group Electronic Grade Argon Product and Services
- 10.9.4 Messer Group Electronic Grade Argon Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 10.9.5 Messer Group Recent Developments/Updates
- 10.9.6 Messer Group Competitive Strengths & Weaknesses
- 10.10 Huate Gas
 - 10.10.1 Huate Gas Details
 - 10.10.2 Huate Gas Major Business
 - 10.10.3 Huate Gas Electronic Grade Argon Product and Services
 - 10.10.4 Huate Gas Electronic Grade Argon Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.10.5 Huate Gas Recent Developments/Updates
 - 10.10.6 Huate Gas Competitive Strengths & Weaknesses
- 10.11 Baoding North SPECIAL Gases Co., Ltd.
 - 10.11.1 Baoding North SPECIAL Gases Co., Ltd. Details
 - 10.11.2 Baoding North SPECIAL Gases Co., Ltd. Major Business
 - 10.11.3 Baoding North SPECIAL Gases Co., Ltd. Electronic Grade Argon Product and Services
 - 10.11.4 Baoding North SPECIAL Gases Co., Ltd. Electronic Grade Argon Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.11.5 Baoding North SPECIAL Gases Co., Ltd. Recent Developments/Updates
 - 10.11.6 Baoding North SPECIAL Gases Co., Ltd. Competitive Strengths & Weaknesses
- 10.12 Guangzhou Guanggang Gases & Energy Co.,Ltd.
 - 10.12.1 Guangzhou Guanggang Gases & Energy Co.,Ltd. Details
 - 10.12.2 Guangzhou Guanggang Gases & Energy Co.,Ltd. Major Business
 - 10.12.3 Guangzhou Guanggang Gases & Energy Co.,Ltd. Electronic Grade Argon Product and Services
 - 10.12.4 Guangzhou Guanggang Gases & Energy Co.,Ltd. Electronic Grade Argon Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.12.5 Guangzhou Guanggang Gases & Energy Co.,Ltd. Recent Developments/Updates
 - 10.12.6 Guangzhou Guanggang Gases & Energy Co.,Ltd. Competitive Strengths & Weaknesses

11 INDUSTRY CHAIN ANALYSIS

11.1 Electronic Grade Argon Industry Chain

11.2 Electronic Grade Argon Upstream Analysis

11.2.1 Electronic Grade Argon Core Raw Materials

11.2.2 Main Manufacturers of Electronic Grade Argon Core Raw Materials

11.3 Midstream Analysis

11.4 Downstream Analysis

11.5 Electronic Grade Argon Production Mode

11.6 Electronic Grade Argon Procurement Model

11.7 Electronic Grade Argon Industry Sales Model and Sales Channels

11.7.1 Electronic Grade Argon Sales Model

11.7.2 Electronic Grade Argon Typical Distributors

12 RESEARCH FINDINGS AND CONCLUSION

13 APPENDIX

13.1 Methodology

13.2 Research Process and Data Source

13.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Electronic Grade Argon Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Electronic Grade Argon Production Value by Region (2021-2026) & (USD Million)

Table 3. World Electronic Grade Argon Production Value by Region (2027-2032) & (USD Million)

Table 4. World Electronic Grade Argon Production Value Market Share by Region (2021-2026)

Table 5. World Electronic Grade Argon Production Value Market Share by Region (2027-2032)

Table 6. World Electronic Grade Argon Production by Region (2021-2026) & (Tons)

Table 7. World Electronic Grade Argon Production by Region (2027-2032) & (Tons)

Table 8. World Electronic Grade Argon Production Market Share by Region (2021-2026)

Table 9. World Electronic Grade Argon Production Market Share by Region (2027-2032)

Table 10. World Electronic Grade Argon Average Price by Region (2021-2026) & (US\$/Ton)

Table 11. World Electronic Grade Argon Average Price by Region (2027-2032) & (US\$/Ton)

Table 12. Electronic Grade Argon Major Market Trends

Table 13. World Electronic Grade Argon Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Tons)

Table 14. World Electronic Grade Argon Consumption by Region (2021-2026) & (Tons)

Table 15. World Electronic Grade Argon Consumption Forecast by Region (2027-2032) & (Tons)

Table 16. World Electronic Grade Argon Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Electronic Grade Argon Producers in 2025

Table 18. World Electronic Grade Argon Production by Manufacturer (2021-2026) & (Tons)

Table 19. Production Market Share of Key Electronic Grade Argon Producers in 2025

Table 20. World Electronic Grade Argon Average Price by Manufacturer (2021-2026) & (US\$/Ton)

Table 21. Global Electronic Grade Argon Company Evaluation Quadrant
Table 22. World Electronic Grade Argon Industry Rank of Major Manufacturers, Based on Production Value in 2025
Table 23. Head Office and Electronic Grade Argon Production Site of Key Manufacturer
Table 24. Electronic Grade Argon Market: Company Product Type Footprint
Table 25. Electronic Grade Argon Market: Company Product Application Footprint
Table 26. Electronic Grade Argon Competitive Factors
Table 27. Electronic Grade Argon New Entrant and Capacity Expansion Plans
Table 28. Electronic Grade Argon Mergers & Acquisitions Activity
Table 29. United States VS China Electronic Grade Argon Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)
Table 30. United States VS China Electronic Grade Argon Production Comparison, (2021 & 2025 & 2032) & (Tons)
Table 31. United States VS China Electronic Grade Argon Consumption Comparison, (2021 & 2025 & 2032) & (Tons)
Table 32. United States Based Electronic Grade Argon Manufacturers, Headquarters and Production Site (States, Country)
Table 33. United States Based Manufacturers Electronic Grade Argon Production Value, (2021-2026) & (USD Million)
Table 34. United States Based Manufacturers Electronic Grade Argon Production Value Market Share (2021-2026)
Table 35. United States Based Manufacturers Electronic Grade Argon Production (2021-2026) & (Tons)
Table 36. United States Based Manufacturers Electronic Grade Argon Production Market Share (2021-2026)
Table 37. China Based Electronic Grade Argon Manufacturers, Headquarters and Production Site (Province, Country)
Table 38. China Based Manufacturers Electronic Grade Argon Production Value, (2021-2026) & (USD Million)
Table 39. China Based Manufacturers Electronic Grade Argon Production Value Market Share (2021-2026)
Table 40. China Based Manufacturers Electronic Grade Argon Production, (2021-2026) & (Tons)
Table 41. China Based Manufacturers Electronic Grade Argon Production Market Share (2021-2026)
Table 42. Rest of World Based Electronic Grade Argon Manufacturers, Headquarters and Production Site (State, Country)
Table 43. Rest of World Based Manufacturers Electronic Grade Argon Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Electronic Grade Argon Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Electronic Grade Argon Production, (2021-2026) & (Tons)

Table 46. Rest of World Based Manufacturers Electronic Grade Argon Production Market Share (2021-2026)

Table 47. World Electronic Grade Argon Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Electronic Grade Argon Production by Type (2021-2026) & (Tons)

Table 49. World Electronic Grade Argon Production by Type (2027-2032) & (Tons)

Table 50. World Electronic Grade Argon Production Value by Type (2021-2026) & (USD Million)

Table 51. World Electronic Grade Argon Production Value by Type (2027-2032) & (USD Million)

Table 52. World Electronic Grade Argon Average Price by Type (2021-2026) & (US\$/Ton)

Table 53. World Electronic Grade Argon Average Price by Type (2027-2032) & (US\$/Ton)

Table 54. World Electronic Grade Argon Production Value by Product Form, (USD Million), 2021 & 2025 & 2032

Table 55. World Electronic Grade Argon Production by Product Form (2021-2026) & (Tons)

Table 56. World Electronic Grade Argon Production by Product Form (2027-2032) & (Tons)

Table 57. World Electronic Grade Argon Production Value by Product Form (2021-2026) & (USD Million)

Table 58. World Electronic Grade Argon Production Value by Product Form (2027-2032) & (USD Million)

Table 59. World Electronic Grade Argon Average Price by Product Form (2021-2026) & (US\$/Ton)

Table 60. World Electronic Grade Argon Average Price by Product Form (2027-2032) & (US\$/Ton)

Table 61. World Electronic Grade Argon Production Value by Preparation Source, (USD Million), 2021 & 2025 & 2032

Table 62. World Electronic Grade Argon Production by Preparation Source (2021-2026) & (Tons)

Table 63. World Electronic Grade Argon Production by Preparation Source (2027-2032) & (Tons)

Table 64. World Electronic Grade Argon Production Value by Preparation Source

(2021-2026) & (USD Million)

Table 65. World Electronic Grade Argon Production Value by Preparation Source

(2027-2032) & (USD Million)

Table 66. World Electronic Grade Argon Average Price by Preparation Source

(2021-2026) & (US\$/Ton)

Table 67. World Electronic Grade Argon Average Price by Preparation Source

(2027-2032) & (US\$/Ton)

Table 68. World Electronic Grade Argon Production Value by Process, (USD Million),
2021 & 2025 & 2032

Table 69. World Electronic Grade Argon Production by Process (2021-2026) & (Tons)

Table 70. World Electronic Grade Argon Production by Process (2027-2032) & (Tons)

Table 71. World Electronic Grade Argon Production Value by Process (2021-2026) &
(USD Million)

Table 72. World Electronic Grade Argon Production Value by Process (2027-2032) &
(USD Million)

Table 73. World Electronic Grade Argon Average Price by Process (2021-2026) &
(US\$/Ton)

Table 74. World Electronic Grade Argon Average Price by Process (2027-2032) &
(US\$/Ton)

Table 75. World Electronic Grade Argon Production Value by Application, (USD Million),
2021 & 2025 & 2032

Table 76. World Electronic Grade Argon Production by Application (2021-2026) &
(Tons)

Table 77. World Electronic Grade Argon Production by Application (2027-2032) &
(Tons)

Table 78. World Electronic Grade Argon Production Value by Application (2021-2026) &
(USD Million)

Table 79. World Electronic Grade Argon Production Value by Application (2027-2032) &
(USD Million)

Table 80. World Electronic Grade Argon Average Price by Application (2021-2026) &
(US\$/Ton)

Table 81. World Electronic Grade Argon Average Price by Application (2027-2032) &
(US\$/Ton)

Table 82. Linde Gas Basic Information, Manufacturing Base and Competitors

Table 83. Linde Gas Major Business

Table 84. Linde Gas Electronic Grade Argon Product and Services

Table 85. Linde Gas Electronic Grade Argon Production (Tons), Price (US\$/Ton),
Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 86. Linde Gas Recent Developments/Updates

Table 87. Linde Gas Competitive Strengths & Weaknesses
Table 88. Air Liquide Basic Information, Manufacturing Base and Competitors
Table 89. Air Liquide Major Business
Table 90. Air Liquide Electronic Grade Argon Product and Services
Table 91. Air Liquide Electronic Grade Argon Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 92. Air Liquide Recent Developments/Updates
Table 93. Air Liquide Competitive Strengths & Weaknesses
Table 94. Air Products Basic Information, Manufacturing Base and Competitors
Table 95. Air Products Major Business
Table 96. Air Products Electronic Grade Argon Product and Services
Table 97. Air Products Electronic Grade Argon Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 98. Air Products Recent Developments/Updates
Table 99. Air Products Competitive Strengths & Weaknesses
Table 100. Supagas Basic Information, Manufacturing Base and Competitors
Table 101. Supagas Major Business
Table 102. Supagas Electronic Grade Argon Product and Services
Table 103. Supagas Electronic Grade Argon Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 104. Supagas Recent Developments/Updates
Table 105. Supagas Competitive Strengths & Weaknesses
Table 106. Prax Air Basic Information, Manufacturing Base and Competitors
Table 107. Prax Air Major Business
Table 108. Prax Air Electronic Grade Argon Product and Services
Table 109. Prax Air Electronic Grade Argon Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 110. Prax Air Recent Developments/Updates
Table 111. Prax Air Competitive Strengths & Weaknesses
Table 112. Ozarc Gas Basic Information, Manufacturing Base and Competitors
Table 113. Ozarc Gas Major Business
Table 114. Ozarc Gas Electronic Grade Argon Product and Services
Table 115. Ozarc Gas Electronic Grade Argon Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 116. Ozarc Gas Recent Developments/Updates
Table 117. Ozarc Gas Competitive Strengths & Weaknesses
Table 118. Hangzhou Hangyang Co.,Ltd. Basic Information, Manufacturing Base and Competitors
Table 119. Hangzhou Hangyang Co.,Ltd. Major Business

Table 120. Hangzhou Hangyang Co.,Ltd. Electronic Grade Argon Product and Services

Table 121. Hangzhou Hangyang Co.,Ltd. Electronic Grade Argon Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 122. Hangzhou Hangyang Co.,Ltd. Recent Developments/Updates

Table 123. Hangzhou Hangyang Co.,Ltd. Competitive Strengths & Weaknesses

Table 124. WestAir Gases Basic Information, Manufacturing Base and Competitors

Table 125. WestAir Gases Major Business

Table 126. WestAir Gases Electronic Grade Argon Product and Services

Table 127. WestAir Gases Electronic Grade Argon Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 128. WestAir Gases Recent Developments/Updates

Table 129. WestAir Gases Competitive Strengths & Weaknesses

Table 130. Messer Group Basic Information, Manufacturing Base and Competitors

Table 131. Messer Group Major Business

Table 132. Messer Group Electronic Grade Argon Product and Services

Table 133. Messer Group Electronic Grade Argon Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 134. Messer Group Recent Developments/Updates

Table 135. Messer Group Competitive Strengths & Weaknesses

Table 136. Huate Gas Basic Information, Manufacturing Base and Competitors

Table 137. Huate Gas Major Business

Table 138. Huate Gas Electronic Grade Argon Product and Services

Table 139. Huate Gas Electronic Grade Argon Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 140. Huate Gas Recent Developments/Updates

Table 141. Huate Gas Competitive Strengths & Weaknesses

Table 142. Baoding North SPECIAL Gases Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 143. Baoding North SPECIAL Gases Co., Ltd. Major Business

Table 144. Baoding North SPECIAL Gases Co., Ltd. Electronic Grade Argon Product and Services

Table 145. Baoding North SPECIAL Gases Co., Ltd. Electronic Grade Argon Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 146. Baoding North SPECIAL Gases Co., Ltd. Recent Developments/Updates

Table 147. Baoding North SPECIAL Gases Co., Ltd. Competitive Strengths & Weaknesses

Table 148. Guangzhou Guanggang Gases & Energy Co.,Ltd. Basic Information,

Manufacturing Base and Competitors

Table 149. Guangzhou Guanggang Gases & Energy Co.,Ltd. Major Business

Table 150. Guangzhou Guanggang Gases & Energy Co.,Ltd. Electronic Grade Argon Product and Services

Table 151. Guangzhou Guanggang Gases & Energy Co.,Ltd. Electronic Grade Argon Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 152. Guangzhou Guanggang Gases & Energy Co.,Ltd. Recent Developments/Updates

Table 153. Guangzhou Guanggang Gases & Energy Co.,Ltd. Competitive Strengths & Weaknesses

Table 154. Global Key Players of Electronic Grade Argon Upstream (Raw Materials)

Table 155. Global Electronic Grade Argon Typical Customers

Table 156. Electronic Grade Argon Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Electronic Grade Argon Picture

Figure 2. World Electronic Grade Argon Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Electronic Grade Argon Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Electronic Grade Argon Production (2021-2032) & (Tons)

Figure 5. World Electronic Grade Argon Average Price (2021-2032) & (US\$/Ton)

Figure 6. World Electronic Grade Argon Production Value Market Share by Region (2021-2032)

Figure 7. World Electronic Grade Argon Production Market Share by Region (2021-2032)

Figure 8. North America Electronic Grade Argon Production (2021-2032) & (Tons)

Figure 9. Europe Electronic Grade Argon Production (2021-2032) & (Tons)

Figure 10. China Electronic Grade Argon Production (2021-2032) & (Tons)

Figure 11. Japan Electronic Grade Argon Production (2021-2032) & (Tons)

Figure 12. Electronic Grade Argon Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Electronic Grade Argon Consumption (2021-2032) & (Tons)

Figure 15. World Electronic Grade Argon Consumption Market Share by Region (2021-2032)

Figure 16. United States Electronic Grade Argon Consumption (2021-2032) & (Tons)

Figure 17. China Electronic Grade Argon Consumption (2021-2032) & (Tons)

Figure 18. Europe Electronic Grade Argon Consumption (2021-2032) & (Tons)

Figure 19. Japan Electronic Grade Argon Consumption (2021-2032) & (Tons)

Figure 20. South Korea Electronic Grade Argon Consumption (2021-2032) & (Tons)

Figure 21. ASEAN Electronic Grade Argon Consumption (2021-2032) & (Tons)

Figure 22. India Electronic Grade Argon Consumption (2021-2032) & (Tons)

Figure 23. Producer Shipments of Electronic Grade Argon by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Electronic Grade Argon Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Electronic Grade Argon Markets in 2025

Figure 26. United States VS China: Electronic Grade Argon Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Electronic Grade Argon Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Electronic Grade Argon Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Electronic Grade Argon Production Market Share 2025

Figure 30. China Based Manufacturers Electronic Grade Argon Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Electronic Grade Argon Production Market Share 2025

Figure 32. World Electronic Grade Argon Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Electronic Grade Argon Production Value Market Share by Type in 2025

Figure 34. 4N

Figure 35. 5N

Figure 36. Others

Figure 37. World Electronic Grade Argon Production Market Share by Type (2021-2032)

Figure 38. World Electronic Grade Argon Production Value Market Share by Type (2021-2032)

Figure 39. World Electronic Grade Argon Average Price by Type (2021-2032) & (US\$/Ton)

Figure 40. World Electronic Grade Argon Production Value by Product Form, (USD Million), 2021 & 2025 & 2032

Figure 41. World Electronic Grade Argon Production Value Market Share by Product Form in 2025

Figure 42. Gas

Figure 43. Liquid

Figure 44. World Electronic Grade Argon Production Market Share by Product Form (2021-2032)

Figure 45. World Electronic Grade Argon Production Value Market Share by Product Form (2021-2032)

Figure 46. World Electronic Grade Argon Average Price by Product Form (2021-2032) & (US\$/Ton)

Figure 47. World Electronic Grade Argon Production Value by Preparation Source, (USD Million), 2021 & 2025 & 2032

Figure 48. World Electronic Grade Argon Production Value Market Share by Preparation Source in 2025

Figure 49. Direct Purification from Air Separation

Figure 50. Repurification of Industrial-grade Argon

Figure 51. Regeneration and Purification of Recovered Argon

Figure 52. World Electronic Grade Argon Production Market Share by Preparation Source (2021-2032)

Figure 53. World Electronic Grade Argon Production Value Market Share by Preparation Source (2021-2032)

Figure 54. World Electronic Grade Argon Average Price by Preparation Source (2021-2032) & (US\$/Ton)

Figure 55. World Electronic Grade Argon Production Value by Process, (USD Million), 2021 & 2025 & 2032

Figure 56. World Electronic Grade Argon Production Value Market Share by Process in 2025

Figure 57. Sputter Deposition

Figure 58. Plasma Etching

Figure 59. Ion Implantation

Figure 60. Purge/Protection

Figure 61. Crystal Growth

Figure 62. Others

Figure 63. World Electronic Grade Argon Production Market Share by Process (2021-2032)

Figure 64. World Electronic Grade Argon Production Value Market Share by Process (2021-2032)

Figure 65. World Electronic Grade Argon Average Price by Process (2021-2032) & (US\$/Ton)

Figure 66. World Electronic Grade Argon Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 67. World Electronic Grade Argon Production Value Market Share by Application in 2025

Figure 68. LED

Figure 69. Semiconductor

Figure 70. Photovoltaics

Figure 71. Others

Figure 72. World Electronic Grade Argon Production Market Share by Application (2021-2032)

Figure 73. World Electronic Grade Argon Production Value Market Share by Application (2021-2032)

Figure 74. World Electronic Grade Argon Average Price by Application (2021-2032) & (US\$/Ton)

Figure 75. Electronic Grade Argon Industry Chain

Figure 76. Electronic Grade Argon Procurement Model

Figure 77. Electronic Grade Argon Sales Model

Figure 78. Electronic Grade Argon Sales Channels, Direct Sales, and Distribution

Figure 79. Methodology

Figure 80. Research Process and Data Source

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