

# Global Electronic Special Gases for Photovoltaic and LED Supply, Demand and Key Producers, 2024-2030

<https://marketpublishers.com/r/G38C99DBA33DEN.html>

Date: March 2024

Pages: 136

Price: US\$ 4,480.00 (Single User License)

ID: G38C99DBA33DEN

## Abstracts

The global Electronic Special Gases for Photovoltaic and LED market size is expected to reach \$ million by 2030, rising at a market growth of % CAGR during the forecast period (2024-2030).

Electronic gas is widely used and has high technical requirements. It has strict requirements for gas sources and its supply systems. It is a typical technology-intensive industry. Its most difficult industry barriers are reflected at two levels: 1. Technical barriers; 2. Qualification barriers. The remaining industry barriers are mainly customer certification barriers, market service barriers, talent barriers, capital barriers, etc.

This report studies the global Electronic Special Gases for Photovoltaic and LED production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Electronic Special Gases for Photovoltaic and LED, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2023 as the base year. This report explores demand trends and competition, as well as details the characteristics of Electronic Special Gases for Photovoltaic and LED that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Electronic Special Gases for Photovoltaic and LED total production and demand, 2019-2030, (Tons)

Global Electronic Special Gases for Photovoltaic and LED total production value,

2019-2030, (USD Million)

Global Electronic Special Gases for Photovoltaic and LED production by region & country, production, value, CAGR, 2019-2030, (USD Million) & (Tons)

Global Electronic Special Gases for Photovoltaic and LED consumption by region & country, CAGR, 2019-2030 & (Tons)

U.S. VS China: Electronic Special Gases for Photovoltaic and LED domestic production, consumption, key domestic manufacturers and share

Global Electronic Special Gases for Photovoltaic and LED production by manufacturer, production, price, value and market share 2019-2024, (USD Million) & (Tons)

Global Electronic Special Gases for Photovoltaic and LED production by Type, production, value, CAGR, 2019-2030, (USD Million) & (Tons)

Global Electronic Special Gases for Photovoltaic and LED production by Application production, value, CAGR, 2019-2030, (USD Million) & (Tons).

This reports profiles key players in the global Electronic Special Gases for Photovoltaic and LED 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 Group, Air Products and Chemicals, Inc., Nippon Sanso Holdings Corporation, Air Liquide, Hyosung Chemical, Central Glass, Matheson Tri-Gas, SK Materials and Concorde Specialty Gases, 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 Special Gases for Photovoltaic and LED 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 2019-2030 by

year with 2023 as the base year, 2024 as the estimate year, and 2025-2030 as the forecast year.

#### Global Electronic Special Gases for Photovoltaic and LED Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Electronic Special Gases for Photovoltaic and LED Market, Segmentation by Type

Fluorine-Containing Special Gas

Fluorine-Free Special Gas

#### Global Electronic Special Gases for Photovoltaic and LED Market, Segmentation by Application

Crystalline Silicon Solar Cells

Thin Film Solar Cells

LED Epitaxial Wafer

Chip

Others

#### Companies Profiled:

Linde Group

Air Products and Chemicals, Inc.

Nippon Sanso Holdings Corporation

Air Liquide

Hyosung Chemical

Central Glass

Matheson Tri-Gas

SK Materials

Concorde Specialty Gases

Mitsui Chemical

Solvay

Showa Denko

Huate Gas

Haohua Chemical Science & Technology

Peric Special Gases

Jinhong Gas

Hubei Heyuan Gas

Hunan Kaimeite Gases

Nata Opto-Electronic Material

### Key Questions Answered

1. How big is the global Electronic Special Gases for Photovoltaic and LED market?
2. What is the demand of the global Electronic Special Gases for Photovoltaic and LED market?
3. What is the year over year growth of the global Electronic Special Gases for Photovoltaic and LED market?
4. What is the production and production value of the global Electronic Special Gases for Photovoltaic and LED market?
5. Who are the key producers in the global Electronic Special Gases for Photovoltaic and LED market?

## Contents

### 1 SUPPLY SUMMARY

- 1.1 Electronic Special Gases for Photovoltaic and LED Introduction
- 1.2 World Electronic Special Gases for Photovoltaic and LED Supply & Forecast
  - 1.2.1 World Electronic Special Gases for Photovoltaic and LED Production Value (2019 & 2023 & 2030)
  - 1.2.2 World Electronic Special Gases for Photovoltaic and LED Production (2019-2030)
  - 1.2.3 World Electronic Special Gases for Photovoltaic and LED Pricing Trends (2019-2030)
- 1.3 World Electronic Special Gases for Photovoltaic and LED Production by Region (Based on Production Site)
  - 1.3.1 World Electronic Special Gases for Photovoltaic and LED Production Value by Region (2019-2030)
  - 1.3.2 World Electronic Special Gases for Photovoltaic and LED Production by Region (2019-2030)
  - 1.3.3 World Electronic Special Gases for Photovoltaic and LED Average Price by Region (2019-2030)
  - 1.3.4 North America Electronic Special Gases for Photovoltaic and LED Production (2019-2030)
  - 1.3.5 Europe Electronic Special Gases for Photovoltaic and LED Production (2019-2030)
  - 1.3.6 China Electronic Special Gases for Photovoltaic and LED Production (2019-2030)
  - 1.3.7 Japan Electronic Special Gases for Photovoltaic and LED Production (2019-2030)
- 1.4 Market Drivers, Restraints and Trends
  - 1.4.1 Electronic Special Gases for Photovoltaic and LED Market Drivers
  - 1.4.2 Factors Affecting Demand
  - 1.4.3 Electronic Special Gases for Photovoltaic and LED Major Market Trends

### 2 DEMAND SUMMARY

- 2.1 World Electronic Special Gases for Photovoltaic and LED Demand (2019-2030)
- 2.2 World Electronic Special Gases for Photovoltaic and LED Consumption by Region
  - 2.2.1 World Electronic Special Gases for Photovoltaic and LED Consumption by Region (2019-2024)

2.2.2 World Electronic Special Gases for Photovoltaic and LED Consumption Forecast by Region (2025-2030)

2.3 United States Electronic Special Gases for Photovoltaic and LED Consumption (2019-2030)

2.4 China Electronic Special Gases for Photovoltaic and LED Consumption (2019-2030)

2.5 Europe Electronic Special Gases for Photovoltaic and LED Consumption (2019-2030)

2.6 Japan Electronic Special Gases for Photovoltaic and LED Consumption (2019-2030)

2.7 South Korea Electronic Special Gases for Photovoltaic and LED Consumption (2019-2030)

2.8 ASEAN Electronic Special Gases for Photovoltaic and LED Consumption (2019-2030)

2.9 India Electronic Special Gases for Photovoltaic and LED Consumption (2019-2030)

### **3 WORLD ELECTRONIC SPECIAL GASES FOR PHOTOVOLTAIC AND LED MANUFACTURERS COMPETITIVE ANALYSIS**

3.1 World Electronic Special Gases for Photovoltaic and LED Production Value by Manufacturer (2019-2024)

3.2 World Electronic Special Gases for Photovoltaic and LED Production by Manufacturer (2019-2024)

3.3 World Electronic Special Gases for Photovoltaic and LED Average Price by Manufacturer (2019-2024)

3.4 Electronic Special Gases for Photovoltaic and LED Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Electronic Special Gases for Photovoltaic and LED Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Electronic Special Gases for Photovoltaic and LED in 2023

3.5.3 Global Concentration Ratios (CR8) for Electronic Special Gases for Photovoltaic and LED in 2023

3.6 Electronic Special Gases for Photovoltaic and LED Market: Overall Company Footprint Analysis

3.6.1 Electronic Special Gases for Photovoltaic and LED Market: Region Footprint

3.6.2 Electronic Special Gases for Photovoltaic and LED Market: Company Product Type Footprint

3.6.3 Electronic Special Gases for Photovoltaic and LED 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 Special Gases for Photovoltaic and LED Production Value Comparison

#### 4.1.1 United States VS China: Electronic Special Gases for Photovoltaic and LED Production Value Comparison (2019 & 2023 & 2030)

#### 4.1.2 United States VS China: Electronic Special Gases for Photovoltaic and LED Production Value Market Share Comparison (2019 & 2023 & 2030)

### 4.2 United States VS China: Electronic Special Gases for Photovoltaic and LED Production Comparison

#### 4.2.1 United States VS China: Electronic Special Gases for Photovoltaic and LED Production Comparison (2019 & 2023 & 2030)

#### 4.2.2 United States VS China: Electronic Special Gases for Photovoltaic and LED Production Market Share Comparison (2019 & 2023 & 2030)

### 4.3 United States VS China: Electronic Special Gases for Photovoltaic and LED Consumption Comparison

#### 4.3.1 United States VS China: Electronic Special Gases for Photovoltaic and LED Consumption Comparison (2019 & 2023 & 2030)

#### 4.3.2 United States VS China: Electronic Special Gases for Photovoltaic and LED Consumption Market Share Comparison (2019 & 2023 & 2030)

### 4.4 United States Based Electronic Special Gases for Photovoltaic and LED Manufacturers and Market Share, 2019-2024

#### 4.4.1 United States Based Electronic Special Gases for Photovoltaic and LED Manufacturers, Headquarters and Production Site (States, Country)

#### 4.4.2 United States Based Manufacturers Electronic Special Gases for Photovoltaic and LED Production Value (2019-2024)

#### 4.4.3 United States Based Manufacturers Electronic Special Gases for Photovoltaic and LED Production (2019-2024)

### 4.5 China Based Electronic Special Gases for Photovoltaic and LED Manufacturers and Market Share

#### 4.5.1 China Based Electronic Special Gases for Photovoltaic and LED Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Electronic Special Gases for Photovoltaic and LED Production Value (2019-2024)

4.5.3 China Based Manufacturers Electronic Special Gases for Photovoltaic and LED Production (2019-2024)

4.6 Rest of World Based Electronic Special Gases for Photovoltaic and LED Manufacturers and Market Share, 2019-2024

4.6.1 Rest of World Based Electronic Special Gases for Photovoltaic and LED Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Electronic Special Gases for Photovoltaic and LED Production Value (2019-2024)

4.6.3 Rest of World Based Manufacturers Electronic Special Gases for Photovoltaic and LED Production (2019-2024)

## **5 MARKET ANALYSIS BY TYPE**

5.1 World Electronic Special Gases for Photovoltaic and LED Market Size Overview by Type: 2019 VS 2023 VS 2030

5.2 Segment Introduction by Type

5.2.1 Fluorine-Containing Special Gas

5.2.2 Fluorine-Free Special Gas

5.3 Market Segment by Type

5.3.1 World Electronic Special Gases for Photovoltaic and LED Production by Type (2019-2030)

5.3.2 World Electronic Special Gases for Photovoltaic and LED Production Value by Type (2019-2030)

5.3.3 World Electronic Special Gases for Photovoltaic and LED Average Price by Type (2019-2030)

## **6 MARKET ANALYSIS BY APPLICATION**

6.1 World Electronic Special Gases for Photovoltaic and LED Market Size Overview by Application: 2019 VS 2023 VS 2030

6.2 Segment Introduction by Application

6.2.1 Crystalline Silicon Solar Cells

6.2.2 Thin Film Solar Cells

6.2.3 LED Epitaxial Wafer

6.2.4 Chip

6.2.5 Others

6.3 Market Segment by Application

6.3.1 World Electronic Special Gases for Photovoltaic and LED Production by Application (2019-2030)

6.3.2 World Electronic Special Gases for Photovoltaic and LED Production Value by Application (2019-2030)

6.3.3 World Electronic Special Gases for Photovoltaic and LED Average Price by Application (2019-2030)

## **7 COMPANY PROFILES**

### **7.1 Linde Group**

7.1.1 Linde Group Details

7.1.2 Linde Group Major Business

7.1.3 Linde Group Electronic Special Gases for Photovoltaic and LED Product and Services

7.1.4 Linde Group Electronic Special Gases for Photovoltaic and LED Production, Price, Value, Gross Margin and Market Share (2019-2024)

7.1.5 Linde Group Recent Developments/Updates

7.1.6 Linde Group Competitive Strengths & Weaknesses

### **7.2 Air Products and Chemicals, Inc.**

7.2.1 Air Products and Chemicals, Inc. Details

7.2.2 Air Products and Chemicals, Inc. Major Business

7.2.3 Air Products and Chemicals, Inc. Electronic Special Gases for Photovoltaic and LED Product and Services

7.2.4 Air Products and Chemicals, Inc. Electronic Special Gases for Photovoltaic and LED Production, Price, Value, Gross Margin and Market Share (2019-2024)

7.2.5 Air Products and Chemicals, Inc. Recent Developments/Updates

7.2.6 Air Products and Chemicals, Inc. Competitive Strengths & Weaknesses

### **7.3 Nippon Sanso Holdings Corporation**

7.3.1 Nippon Sanso Holdings Corporation Details

7.3.2 Nippon Sanso Holdings Corporation Major Business

7.3.3 Nippon Sanso Holdings Corporation Electronic Special Gases for Photovoltaic and LED Product and Services

7.3.4 Nippon Sanso Holdings Corporation Electronic Special Gases for Photovoltaic and LED Production, Price, Value, Gross Margin and Market Share (2019-2024)

7.3.5 Nippon Sanso Holdings Corporation Recent Developments/Updates

7.3.6 Nippon Sanso Holdings Corporation Competitive Strengths & Weaknesses

### **7.4 Air Liquide**

7.4.1 Air Liquide Details

7.4.2 Air Liquide Major Business

7.4.3 Air Liquide Electronic Special Gases for Photovoltaic and LED Product and Services

7.4.4 Air Liquide Electronic Special Gases for Photovoltaic and LED Production, Price, Value, Gross Margin and Market Share (2019-2024)

7.4.5 Air Liquide Recent Developments/Updates

7.4.6 Air Liquide Competitive Strengths & Weaknesses

7.5 Hyosung Chemical

7.5.1 Hyosung Chemical Details

7.5.2 Hyosung Chemical Major Business

7.5.3 Hyosung Chemical Electronic Special Gases for Photovoltaic and LED Product and Services

7.5.4 Hyosung Chemical Electronic Special Gases for Photovoltaic and LED Production, Price, Value, Gross Margin and Market Share (2019-2024)

7.5.5 Hyosung Chemical Recent Developments/Updates

7.5.6 Hyosung Chemical Competitive Strengths & Weaknesses

7.6 Central Glass

7.6.1 Central Glass Details

7.6.2 Central Glass Major Business

7.6.3 Central Glass Electronic Special Gases for Photovoltaic and LED Product and Services

7.6.4 Central Glass Electronic Special Gases for Photovoltaic and LED Production, Price, Value, Gross Margin and Market Share (2019-2024)

7.6.5 Central Glass Recent Developments/Updates

7.6.6 Central Glass Competitive Strengths & Weaknesses

7.7 Matheson Tri-Gas

7.7.1 Matheson Tri-Gas Details

7.7.2 Matheson Tri-Gas Major Business

7.7.3 Matheson Tri-Gas Electronic Special Gases for Photovoltaic and LED Product and Services

7.7.4 Matheson Tri-Gas Electronic Special Gases for Photovoltaic and LED Production, Price, Value, Gross Margin and Market Share (2019-2024)

7.7.5 Matheson Tri-Gas Recent Developments/Updates

7.7.6 Matheson Tri-Gas Competitive Strengths & Weaknesses

7.8 SK Materials

7.8.1 SK Materials Details

7.8.2 SK Materials Major Business

7.8.3 SK Materials Electronic Special Gases for Photovoltaic and LED Product and Services

7.8.4 SK Materials Electronic Special Gases for Photovoltaic and LED Production,

Price, Value, Gross Margin and Market Share (2019-2024)

7.8.5 SK Materials Recent Developments/Updates

7.8.6 SK Materials Competitive Strengths & Weaknesses

7.9 Concorde Specialty Gases

7.9.1 Concorde Specialty Gases Details

7.9.2 Concorde Specialty Gases Major Business

7.9.3 Concorde Specialty Gases Electronic Special Gases for Photovoltaic and LED Product and Services

7.9.4 Concorde Specialty Gases Electronic Special Gases for Photovoltaic and LED Production, Price, Value, Gross Margin and Market Share (2019-2024)

7.9.5 Concorde Specialty Gases Recent Developments/Updates

7.9.6 Concorde Specialty Gases Competitive Strengths & Weaknesses

7.10 Mitsui Chemical

7.10.1 Mitsui Chemical Details

7.10.2 Mitsui Chemical Major Business

7.10.3 Mitsui Chemical Electronic Special Gases for Photovoltaic and LED Product and Services

7.10.4 Mitsui Chemical Electronic Special Gases for Photovoltaic and LED Production, Price, Value, Gross Margin and Market Share (2019-2024)

7.10.5 Mitsui Chemical Recent Developments/Updates

7.10.6 Mitsui Chemical Competitive Strengths & Weaknesses

7.11 Solvay

7.11.1 Solvay Details

7.11.2 Solvay Major Business

7.11.3 Solvay Electronic Special Gases for Photovoltaic and LED Product and Services

7.11.4 Solvay Electronic Special Gases for Photovoltaic and LED Production, Price, Value, Gross Margin and Market Share (2019-2024)

7.11.5 Solvay Recent Developments/Updates

7.11.6 Solvay Competitive Strengths & Weaknesses

7.12 Showa Denko

7.12.1 Showa Denko Details

7.12.2 Showa Denko Major Business

7.12.3 Showa Denko Electronic Special Gases for Photovoltaic and LED Product and Services

7.12.4 Showa Denko Electronic Special Gases for Photovoltaic and LED Production, Price, Value, Gross Margin and Market Share (2019-2024)

7.12.5 Showa Denko Recent Developments/Updates

7.12.6 Showa Denko Competitive Strengths & Weaknesses

## 7.13 Huate Gas

### 7.13.1 Huate Gas Details

### 7.13.2 Huate Gas Major Business

### 7.13.3 Huate Gas Electronic Special Gases for Photovoltaic and LED Product and Services

### 7.13.4 Huate Gas Electronic Special Gases for Photovoltaic and LED Production, Price, Value, Gross Margin and Market Share (2019-2024)

### 7.13.5 Huate Gas Recent Developments/Updates

### 7.13.6 Huate Gas Competitive Strengths & Weaknesses

## 7.14 Haohua Chemical Science & Technology

### 7.14.1 Haohua Chemical Science & Technology Details

### 7.14.2 Haohua Chemical Science & Technology Major Business

### 7.14.3 Haohua Chemical Science & Technology Electronic Special Gases for Photovoltaic and LED Product and Services

### 7.14.4 Haohua Chemical Science & Technology Electronic Special Gases for Photovoltaic and LED Production, Price, Value, Gross Margin and Market Share (2019-2024)

### 7.14.5 Haohua Chemical Science & Technology Recent Developments/Updates

### 7.14.6 Haohua Chemical Science & Technology Competitive Strengths & Weaknesses

## 7.15 Peric Special Gases

### 7.15.1 Peric Special Gases Details

### 7.15.2 Peric Special Gases Major Business

### 7.15.3 Peric Special Gases Electronic Special Gases for Photovoltaic and LED Product and Services

### 7.15.4 Peric Special Gases Electronic Special Gases for Photovoltaic and LED Production, Price, Value, Gross Margin and Market Share (2019-2024)

### 7.15.5 Peric Special Gases Recent Developments/Updates

### 7.15.6 Peric Special Gases Competitive Strengths & Weaknesses

## 7.16 Jinhong Gas

### 7.16.1 Jinhong Gas Details

### 7.16.2 Jinhong Gas Major Business

### 7.16.3 Jinhong Gas Electronic Special Gases for Photovoltaic and LED Product and Services

### 7.16.4 Jinhong Gas Electronic Special Gases for Photovoltaic and LED Production, Price, Value, Gross Margin and Market Share (2019-2024)

### 7.16.5 Jinhong Gas Recent Developments/Updates

### 7.16.6 Jinhong Gas Competitive Strengths & Weaknesses

## 7.17 Hubei Heyuan Gas

### 7.17.1 Hubei Heyuan Gas Details

- 7.17.2 Hubei Heyuan Gas Major Business
- 7.17.3 Hubei Heyuan Gas Electronic Special Gases for Photovoltaic and LED Product and Services
- 7.17.4 Hubei Heyuan Gas Electronic Special Gases for Photovoltaic and LED Production, Price, Value, Gross Margin and Market Share (2019-2024)
- 7.17.5 Hubei Heyuan Gas Recent Developments/Updates
- 7.17.6 Hubei Heyuan Gas Competitive Strengths & Weaknesses
- 7.18 Hunan Kaimeite Gases
- 7.18.1 Hunan Kaimeite Gases Details
- 7.18.2 Hunan Kaimeite Gases Major Business
- 7.18.3 Hunan Kaimeite Gases Electronic Special Gases for Photovoltaic and LED Product and Services
- 7.18.4 Hunan Kaimeite Gases Electronic Special Gases for Photovoltaic and LED Production, Price, Value, Gross Margin and Market Share (2019-2024)
- 7.18.5 Hunan Kaimeite Gases Recent Developments/Updates
- 7.18.6 Hunan Kaimeite Gases Competitive Strengths & Weaknesses
- 7.19 Nata Opto-Electronic Material
- 7.19.1 Nata Opto-Electronic Material Details
- 7.19.2 Nata Opto-Electronic Material Major Business
- 7.19.3 Nata Opto-Electronic Material Electronic Special Gases for Photovoltaic and LED Product and Services
- 7.19.4 Nata Opto-Electronic Material Electronic Special Gases for Photovoltaic and LED Production, Price, Value, Gross Margin and Market Share (2019-2024)
- 7.19.5 Nata Opto-Electronic Material Recent Developments/Updates
- 7.19.6 Nata Opto-Electronic Material Competitive Strengths & Weaknesses

## **8 INDUSTRY CHAIN ANALYSIS**

- 8.1 Electronic Special Gases for Photovoltaic and LED Industry Chain
- 8.2 Electronic Special Gases for Photovoltaic and LED Upstream Analysis
  - 8.2.1 Electronic Special Gases for Photovoltaic and LED Core Raw Materials
  - 8.2.2 Main Manufacturers of Electronic Special Gases for Photovoltaic and LED Core Raw Materials
- 8.3 Midstream Analysis
- 8.4 Downstream Analysis
- 8.5 Electronic Special Gases for Photovoltaic and LED Production Mode
- 8.6 Electronic Special Gases for Photovoltaic and LED Procurement Model
- 8.7 Electronic Special Gases for Photovoltaic and LED Industry Sales Model and Sales Channels

8.7.1 Electronic Special Gases for Photovoltaic and LED Sales Model

8.7.2 Electronic Special Gases for Photovoltaic and LED Typical Customers

## **9 RESEARCH FINDINGS AND CONCLUSION**

## **10 APPENDIX**

10.1 Methodology

10.2 Research Process and Data Source

10.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. World Electronic Special Gases for Photovoltaic and LED Production Value by Region (2019, 2023 and 2030) & (USD Million)

Table 2. World Electronic Special Gases for Photovoltaic and LED Production Value by Region (2019-2024) & (USD Million)

Table 3. World Electronic Special Gases for Photovoltaic and LED Production Value by Region (2025-2030) & (USD Million)

Table 4. World Electronic Special Gases for Photovoltaic and LED Production Value Market Share by Region (2019-2024)

Table 5. World Electronic Special Gases for Photovoltaic and LED Production Value Market Share by Region (2025-2030)

Table 6. World Electronic Special Gases for Photovoltaic and LED Production by Region (2019-2024) & (Tons)

Table 7. World Electronic Special Gases for Photovoltaic and LED Production by Region (2025-2030) & (Tons)

Table 8. World Electronic Special Gases for Photovoltaic and LED Production Market Share by Region (2019-2024)

Table 9. World Electronic Special Gases for Photovoltaic and LED Production Market Share by Region (2025-2030)

Table 10. World Electronic Special Gases for Photovoltaic and LED Average Price by Region (2019-2024) & (US\$/Ton)

Table 11. World Electronic Special Gases for Photovoltaic and LED Average Price by Region (2025-2030) & (US\$/Ton)

Table 12. Electronic Special Gases for Photovoltaic and LED Major Market Trends

Table 13. World Electronic Special Gases for Photovoltaic and LED Consumption Growth Rate Forecast by Region (2019 & 2023 & 2030) & (Tons)

Table 14. World Electronic Special Gases for Photovoltaic and LED Consumption by Region (2019-2024) & (Tons)

Table 15. World Electronic Special Gases for Photovoltaic and LED Consumption Forecast by Region (2025-2030) & (Tons)

Table 16. World Electronic Special Gases for Photovoltaic and LED Production Value by Manufacturer (2019-2024) & (USD Million)

Table 17. Production Value Market Share of Key Electronic Special Gases for Photovoltaic and LED Producers in 2023

Table 18. World Electronic Special Gases for Photovoltaic and LED Production by Manufacturer (2019-2024) & (Tons)

Table 19. Production Market Share of Key Electronic Special Gases for Photovoltaic and LED Producers in 2023

Table 20. World Electronic Special Gases for Photovoltaic and LED Average Price by Manufacturer (2019-2024) & (US\$/Ton)

Table 21. Global Electronic Special Gases for Photovoltaic and LED Company Evaluation Quadrant

Table 22. World Electronic Special Gases for Photovoltaic and LED Industry Rank of Major Manufacturers, Based on Production Value in 2023

Table 23. Head Office and Electronic Special Gases for Photovoltaic and LED Production Site of Key Manufacturer

Table 24. Electronic Special Gases for Photovoltaic and LED Market: Company Product Type Footprint

Table 25. Electronic Special Gases for Photovoltaic and LED Market: Company Product Application Footprint

Table 26. Electronic Special Gases for Photovoltaic and LED Competitive Factors

Table 27. Electronic Special Gases for Photovoltaic and LED New Entrant and Capacity Expansion Plans

Table 28. Electronic Special Gases for Photovoltaic and LED Mergers & Acquisitions Activity

Table 29. United States VS China Electronic Special Gases for Photovoltaic and LED Production Value Comparison, (2019 & 2023 & 2030) & (USD Million)

Table 30. United States VS China Electronic Special Gases for Photovoltaic and LED Production Comparison, (2019 & 2023 & 2030) & (Tons)

Table 31. United States VS China Electronic Special Gases for Photovoltaic and LED Consumption Comparison, (2019 & 2023 & 2030) & (Tons)

Table 32. United States Based Electronic Special Gases for Photovoltaic and LED Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Electronic Special Gases for Photovoltaic and LED Production Value, (2019-2024) & (USD Million)

Table 34. United States Based Manufacturers Electronic Special Gases for Photovoltaic and LED Production Value Market Share (2019-2024)

Table 35. United States Based Manufacturers Electronic Special Gases for Photovoltaic and LED Production (2019-2024) & (Tons)

Table 36. United States Based Manufacturers Electronic Special Gases for Photovoltaic and LED Production Market Share (2019-2024)

Table 37. China Based Electronic Special Gases for Photovoltaic and LED Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Electronic Special Gases for Photovoltaic and LED Production Value, (2019-2024) & (USD Million)

Table 39. China Based Manufacturers Electronic Special Gases for Photovoltaic and LED Production Value Market Share (2019-2024)

Table 40. China Based Manufacturers Electronic Special Gases for Photovoltaic and LED Production (2019-2024) & (Tons)

Table 41. China Based Manufacturers Electronic Special Gases for Photovoltaic and LED Production Market Share (2019-2024)

Table 42. Rest of World Based Electronic Special Gases for Photovoltaic and LED Manufacturers, Headquarters and Production Site (States, Country)

Table 43. Rest of World Based Manufacturers Electronic Special Gases for Photovoltaic and LED Production Value, (2019-2024) & (USD Million)

Table 44. Rest of World Based Manufacturers Electronic Special Gases for Photovoltaic and LED Production Value Market Share (2019-2024)

Table 45. Rest of World Based Manufacturers Electronic Special Gases for Photovoltaic and LED Production (2019-2024) & (Tons)

Table 46. Rest of World Based Manufacturers Electronic Special Gases for Photovoltaic and LED Production Market Share (2019-2024)

Table 47. World Electronic Special Gases for Photovoltaic and LED Production Value by Type, (USD Million), 2019 & 2023 & 2030

Table 48. World Electronic Special Gases for Photovoltaic and LED Production by Type (2019-2024) & (Tons)

Table 49. World Electronic Special Gases for Photovoltaic and LED Production by Type (2025-2030) & (Tons)

Table 50. World Electronic Special Gases for Photovoltaic and LED Production Value by Type (2019-2024) & (USD Million)

Table 51. World Electronic Special Gases for Photovoltaic and LED Production Value by Type (2025-2030) & (USD Million)

Table 52. World Electronic Special Gases for Photovoltaic and LED Average Price by Type (2019-2024) & (US\$/Ton)

Table 53. World Electronic Special Gases for Photovoltaic and LED Average Price by Type (2025-2030) & (US\$/Ton)

Table 54. World Electronic Special Gases for Photovoltaic and LED Production Value by Application, (USD Million), 2019 & 2023 & 2030

Table 55. World Electronic Special Gases for Photovoltaic and LED Production by Application (2019-2024) & (Tons)

Table 56. World Electronic Special Gases for Photovoltaic and LED Production by Application (2025-2030) & (Tons)

Table 57. World Electronic Special Gases for Photovoltaic and LED Production Value by Application (2019-2024) & (USD Million)

Table 58. World Electronic Special Gases for Photovoltaic and LED Production Value

by Application (2025-2030) & (USD Million)

Table 59. World Electronic Special Gases for Photovoltaic and LED Average Price by Application (2019-2024) & (US\$/Ton)

Table 60. World Electronic Special Gases for Photovoltaic and LED Average Price by Application (2025-2030) & (US\$/Ton)

Table 61. Linde Group Basic Information, Manufacturing Base and Competitors

Table 62. Linde Group Major Business

Table 63. Linde Group Electronic Special Gases for Photovoltaic and LED Product and Services

Table 64. Linde Group Electronic Special Gases for Photovoltaic and LED Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2019-2024)

Table 65. Linde Group Recent Developments/Updates

Table 66. Linde Group Competitive Strengths & Weaknesses

Table 67. Air Products and Chemicals, Inc. Basic Information, Manufacturing Base and Competitors

Table 68. Air Products and Chemicals, Inc. Major Business

Table 69. Air Products and Chemicals, Inc. Electronic Special Gases for Photovoltaic and LED Product and Services

Table 70. Air Products and Chemicals, Inc. Electronic Special Gases for Photovoltaic and LED Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2019-2024)

Table 71. Air Products and Chemicals, Inc. Recent Developments/Updates

Table 72. Air Products and Chemicals, Inc. Competitive Strengths & Weaknesses

Table 73. Nippon Sanso Holdings Corporation Basic Information, Manufacturing Base and Competitors

Table 74. Nippon Sanso Holdings Corporation Major Business

Table 75. Nippon Sanso Holdings Corporation Electronic Special Gases for Photovoltaic and LED Product and Services

Table 76. Nippon Sanso Holdings Corporation Electronic Special Gases for Photovoltaic and LED Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2019-2024)

Table 77. Nippon Sanso Holdings Corporation Recent Developments/Updates

Table 78. Nippon Sanso Holdings Corporation Competitive Strengths & Weaknesses

Table 79. Air Liquide Basic Information, Manufacturing Base and Competitors

Table 80. Air Liquide Major Business

Table 81. Air Liquide Electronic Special Gases for Photovoltaic and LED Product and Services

Table 82. Air Liquide Electronic Special Gases for Photovoltaic and LED Production

(Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2019-2024)

Table 83. Air Liquide Recent Developments/Updates

Table 84. Air Liquide Competitive Strengths & Weaknesses

Table 85. Hyosung Chemical Basic Information, Manufacturing Base and Competitors

Table 86. Hyosung Chemical Major Business

Table 87. Hyosung Chemical Electronic Special Gases for Photovoltaic and LED Product and Services

Table 88. Hyosung Chemical Electronic Special Gases for Photovoltaic and LED Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2019-2024)

Table 89. Hyosung Chemical Recent Developments/Updates

Table 90. Hyosung Chemical Competitive Strengths & Weaknesses

Table 91. Central Glass Basic Information, Manufacturing Base and Competitors

Table 92. Central Glass Major Business

Table 93. Central Glass Electronic Special Gases for Photovoltaic and LED Product and Services

Table 94. Central Glass Electronic Special Gases for Photovoltaic and LED Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2019-2024)

Table 95. Central Glass Recent Developments/Updates

Table 96. Central Glass Competitive Strengths & Weaknesses

Table 97. Matheson Tri-Gas Basic Information, Manufacturing Base and Competitors

Table 98. Matheson Tri-Gas Major Business

Table 99. Matheson Tri-Gas Electronic Special Gases for Photovoltaic and LED Product and Services

Table 100. Matheson Tri-Gas Electronic Special Gases for Photovoltaic and LED Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2019-2024)

Table 101. Matheson Tri-Gas Recent Developments/Updates

Table 102. Matheson Tri-Gas Competitive Strengths & Weaknesses

Table 103. SK Materials Basic Information, Manufacturing Base and Competitors

Table 104. SK Materials Major Business

Table 105. SK Materials Electronic Special Gases for Photovoltaic and LED Product and Services

Table 106. SK Materials Electronic Special Gases for Photovoltaic and LED Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2019-2024)

Table 107. SK Materials Recent Developments/Updates

Table 108. SK Materials Competitive Strengths & Weaknesses

Table 109. Concorde Specialty Gases Basic Information, Manufacturing Base and Competitors

Table 110. Concorde Specialty Gases Major Business

Table 111. Concorde Specialty Gases Electronic Special Gases for Photovoltaic and LED Product and Services

Table 112. Concorde Specialty Gases Electronic Special Gases for Photovoltaic and LED Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2019-2024)

Table 113. Concorde Specialty Gases Recent Developments/Updates

Table 114. Concorde Specialty Gases Competitive Strengths & Weaknesses

Table 115. Mitsui Chemical Basic Information, Manufacturing Base and Competitors

Table 116. Mitsui Chemical Major Business

Table 117. Mitsui Chemical Electronic Special Gases for Photovoltaic and LED Product and Services

Table 118. Mitsui Chemical Electronic Special Gases for Photovoltaic and LED Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2019-2024)

Table 119. Mitsui Chemical Recent Developments/Updates

Table 120. Mitsui Chemical Competitive Strengths & Weaknesses

Table 121. Solvay Basic Information, Manufacturing Base and Competitors

Table 122. Solvay Major Business

Table 123. Solvay Electronic Special Gases for Photovoltaic and LED Product and Services

Table 124. Solvay Electronic Special Gases for Photovoltaic and LED Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2019-2024)

Table 125. Solvay Recent Developments/Updates

Table 126. Solvay Competitive Strengths & Weaknesses

Table 127. Showa Denko Basic Information, Manufacturing Base and Competitors

Table 128. Showa Denko Major Business

Table 129. Showa Denko Electronic Special Gases for Photovoltaic and LED Product and Services

Table 130. Showa Denko Electronic Special Gases for Photovoltaic and LED Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2019-2024)

Table 131. Showa Denko Recent Developments/Updates

Table 132. Showa Denko Competitive Strengths & Weaknesses

Table 133. Huate Gas Basic Information, Manufacturing Base and Competitors

Table 134. Huate Gas Major Business

Table 135. Huate Gas Electronic Special Gases for Photovoltaic and LED Product and Services

Table 136. Huate Gas Electronic Special Gases for Photovoltaic and LED Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2019-2024)

Table 137. Huate Gas Recent Developments/Updates

Table 138. Huate Gas Competitive Strengths & Weaknesses

Table 139. Haohua Chemical Science & Technology Basic Information, Manufacturing Base and Competitors

Table 140. Haohua Chemical Science & Technology Major Business

Table 141. Haohua Chemical Science & Technology Electronic Special Gases for Photovoltaic and LED Product and Services

Table 142. Haohua Chemical Science & Technology Electronic Special Gases for Photovoltaic and LED Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2019-2024)

Table 143. Haohua Chemical Science & Technology Recent Developments/Updates

Table 144. Haohua Chemical Science & Technology Competitive Strengths & Weaknesses

Table 145. Peric Special Gases Basic Information, Manufacturing Base and Competitors

Table 146. Peric Special Gases Major Business

Table 147. Peric Special Gases Electronic Special Gases for Photovoltaic and LED Product and Services

Table 148. Peric Special Gases Electronic Special Gases for Photovoltaic and LED Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2019-2024)

Table 149. Peric Special Gases Recent Developments/Updates

Table 150. Peric Special Gases Competitive Strengths & Weaknesses

Table 151. Jinhong Gas Basic Information, Manufacturing Base and Competitors

Table 152. Jinhong Gas Major Business

Table 153. Jinhong Gas Electronic Special Gases for Photovoltaic and LED Product and Services

Table 154. Jinhong Gas Electronic Special Gases for Photovoltaic and LED Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2019-2024)

Table 155. Jinhong Gas Recent Developments/Updates

Table 156. Jinhong Gas Competitive Strengths & Weaknesses

Table 157. Hubei Heyuan Gas Basic Information, Manufacturing Base and Competitors

Table 158. Hubei Heyuan Gas Major Business

Table 159. Hubei Heyuan Gas Electronic Special Gases for Photovoltaic and LED Product and Services

Table 160. Hubei Heyuan Gas Electronic Special Gases for Photovoltaic and LED Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2019-2024)

Table 161. Hubei Heyuan Gas Recent Developments/Updates

Table 162. Hubei Heyuan Gas Competitive Strengths & Weaknesses

Table 163. Hunan Kaimeite Gases Basic Information, Manufacturing Base and Competitors

Table 164. Hunan Kaimeite Gases Major Business

Table 165. Hunan Kaimeite Gases Electronic Special Gases for Photovoltaic and LED Product and Services

Table 166. Hunan Kaimeite Gases Electronic Special Gases for Photovoltaic and LED Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2019-2024)

Table 167. Hunan Kaimeite Gases Recent Developments/Updates

Table 168. Nata Opto-Electronic Material Basic Information, Manufacturing Base and Competitors

Table 169. Nata Opto-Electronic Material Major Business

Table 170. Nata Opto-Electronic Material Electronic Special Gases for Photovoltaic and LED Product and Services

Table 171. Nata Opto-Electronic Material Electronic Special Gases for Photovoltaic and LED Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2019-2024)

Table 172. Global Key Players of Electronic Special Gases for Photovoltaic and LED Upstream (Raw Materials)

Table 173. Electronic Special Gases for Photovoltaic and LED Typical Customers

Table 174. Electronic Special Gases for Photovoltaic and LED Typical Distributors

## LIST OF FIGURE

Figure 1. Electronic Special Gases for Photovoltaic and LED Picture

Figure 2. World Electronic Special Gases for Photovoltaic and LED Production Value: 2019 & 2023 & 2030, (USD Million)

Figure 3. World Electronic Special Gases for Photovoltaic and LED Production Value and Forecast (2019-2030) & (USD Million)

Figure 4. World Electronic Special Gases for Photovoltaic and LED Production (2019-2030) & (Tons)

Figure 5. World Electronic Special Gases for Photovoltaic and LED Average Price (2019-2030) & (US\$/Ton)

Figure 6. World Electronic Special Gases for Photovoltaic and LED Production Value Market Share by Region (2019-2030)

Figure 7. World Electronic Special Gases for Photovoltaic and LED Production Market Share by Region (2019-2030)

Figure 8. North America Electronic Special Gases for Photovoltaic and LED Production (2019-2030) & (Tons)

Figure 9. Europe Electronic Special Gases for Photovoltaic and LED Production (2019-2030) & (Tons)

Figure 10. China Electronic Special Gases for Photovoltaic and LED Production (2019-2030) & (Tons)

Figure 11. Japan Electronic Special Gases for Photovoltaic and LED Production (2019-2030) & (Tons)

Figure 12. Electronic Special Gases for Photovoltaic and LED Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Electronic Special Gases for Photovoltaic and LED Consumption (2019-2030) & (Tons)

Figure 15. World Electronic Special Gases for Photovoltaic and LED Consumption Market Share by Region (2019-2030)

Figure 16. United States Electronic Special Gases for Photovoltaic and LED Consumption (2019-2030) & (Tons)

Figure 17. China Electronic Special Gases for Photovoltaic and LED Consumption (2019-2030) & (Tons)

Figure 18. Europe Electronic Special Gases for Photovoltaic and LED Consumption (2019-2030) & (Tons)

Figure 19. Japan Electronic Special Gases for Photovoltaic and LED Consumption (2019-2030) & (Tons)

Figure 20. South Korea Electronic Special Gases for Photovoltaic and LED Consumption (2019-2030) & (Tons)

Figure 21. ASEAN Electronic Special Gases for Photovoltaic and LED Consumption (2019-2030) & (Tons)

Figure 22. India Electronic Special Gases for Photovoltaic and LED Consumption (2019-2030) & (Tons)

Figure 23. Producer Shipments of Electronic Special Gases for Photovoltaic and LED by Manufacturer Revenue (\$MM) and Market Share (%): 2023

Figure 24. Global Four-firm Concentration Ratios (CR4) for Electronic Special Gases for Photovoltaic and LED Markets in 2023

Figure 25. Global Four-firm Concentration Ratios (CR8) for Electronic Special Gases for

## Photovoltaic and LED Markets in 2023

Figure 26. United States VS China: Electronic Special Gases for Photovoltaic and LED Production Value Market Share Comparison (2019 & 2023 & 2030)

Figure 27. United States VS China: Electronic Special Gases for Photovoltaic and LED Production Market Share Comparison (2019 & 2023 & 2030)

Figure 28. United States VS China: Electronic Special Gases for Photovoltaic and LED Consumption Market Share Comparison (2019 & 2023 & 2030)

Figure 29. United States Based Manufacturers Electronic Special Gases for Photovoltaic and LED Production Market Share 2023

Figure 30. China Based Manufacturers Electronic Special Gases for Photovoltaic and LED Production Market Share 2023

Figure 31. Rest of World Based Manufacturers Electronic Special Gases for Photovoltaic and LED Production Market Share 2023

Figure 32. World Electronic Special Gases for Photovoltaic and LED Production Value by Type, (USD Million), 2019 & 2023 & 2030

Figure 33. World Electronic Special Gases for Photovoltaic and LED Production Value Market Share by Type in 2023

Figure 34. Fluorine-Containing Special Gas

Figure 35. Fluorine-Free Special Gas

Figure 36. World Electronic Special Gases for Photovoltaic and LED Production Market Share by Type (2019-2030)

Figure 37. World Electronic Special Gases for Photovoltaic and LED Production Value Market Share by Type (2019-2030)

Figure 38. World Electronic Special Gases for Photovoltaic and LED Average Price by Type (2019-2030) & (US\$/Ton)

Figure 39. World Electronic Special Gases for Photovoltaic and LED Production Value by Application, (USD Million), 2019 & 2023 & 2030

Figure 40. World Electronic Special Gases for Photovoltaic and LED Production Value Market Share by Application in 2023

Figure 41. Crystalline Silicon Solar Cells

Figure 42. Thin Film Solar Cells

Figure 43. LED Epitaxial Wafer

Figure 44. Chip

Figure 45. Others

Figure 46. World Electronic Special Gases for Photovoltaic and LED Production Market Share by Application (2019-2030)

Figure 47. World Electronic Special Gases for Photovoltaic and LED Production Value Market Share by Application (2019-2030)

Figure 48. World Electronic Special Gases for Photovoltaic and LED Average Price by

Application (2019-2030) & (US\$/Ton)

Figure 49. Electronic Special Gases for Photovoltaic and LED Industry Chain

Figure 50. Electronic Special Gases for Photovoltaic and LED Procurement Model

Figure 51. Electronic Special Gases for Photovoltaic and LED Sales Model

Figure 52. Electronic Special Gases for Photovoltaic and LED Sales Channels, Direct Sales, and Distribution

Figure 53. Methodology

Figure 54. Research Process and Data Source

## I would like to order

Product name: Global Electronic Special Gases for Photovoltaic and LED Supply, Demand and Key Producers, 2024-2030

Product link: <https://marketpublishers.com/r/G38C99DBA33DEN.html>

Price: US\$ 4,480.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G38C99DBA33DEN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970

