

# Global Specialty Gases for Semiconductor Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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## Abstracts

According to our (Global Info Research) latest study, the global Specialty Gases for Semiconductor market size was valued at USD 2636.9 million in 2023 and is forecast to a readjusted size of USD 4143.8 million by 2030 with a CAGR of 6.7% during review period.

Specialty Gases for Semiconductor range from the pyrophoric and/or toxic specialty gases required for thin film deposition and doping processes (ammonia, methane, silane, germane, dichlorosilane, silicon tetrachloride, phosphine, diborane, arsine and others) through the reactive and corrosive gases needed in different etch processes (chlorine, fluorine, halocarbons, nitrogen trifluoride, etc.). The atmospheric gases (oxygen, hydrogen, nitrogen, argon and helium) are not covers in this report. The Specialty Gases for Semiconductor market covers Nitrogen Trifluoride, Silicon-Precursor Gases, Fluoroalkane, Ammonia, Others, etc. The typical players include SK Materials, Hyosung, Kanto Denka Kogyo, Merck (Versum Materials), PERIC, Mitsui Chemical, ChemChina, Shandong FeiYuan, etc.

Global key players of Specialty Gases for Semiconductor include SK Materials (SK specialty), Merck (Versum Materials) and Taiyo Nippon Sanso, etc. Global top three manufacturers hold a share over 40%. South Korea is the largest producer of Specialty Gases for Semiconductor, followed by United States and Japan.

The Global Info Research report includes an overview of the development of the Specialty Gases for Semiconductor industry chain, the market status of Consumer Electronics (Nitrogen Trifluoride, Silicon-Precursor Gases), Automotive Electronics (Nitrogen Trifluoride, Silicon-Precursor Gases), and key enterprises in developed and

developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Specialty Gases for Semiconductor.

Regionally, the report analyzes the Specialty Gases for Semiconductor markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Specialty Gases for Semiconductor market, with robust domestic demand, supportive policies, and a strong manufacturing base.

#### Key Features:

The report presents comprehensive understanding of the Specialty Gases for Semiconductor market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Specialty Gases for Semiconductor industry.

The report involves analyzing the market at a macro level:

**Market Sizing and Segmentation:** Report collect data on the overall market size, including the sales quantity (Ton), revenue generated, and market share of different by Type (e.g., Nitrogen Trifluoride, Silicon-Precursor Gases).

**Industry Analysis:** Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Specialty Gases for Semiconductor market.

**Regional Analysis:** The report involves examining the Specialty Gases for Semiconductor market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

**Market Projections:** Report covers the gathered data and analysis to make future projections and forecasts for the Specialty Gases for Semiconductor market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Specialty Gases for

## Semiconductor:

**Company Analysis:** Report covers individual Specialty Gases for Semiconductor manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

**Consumer Analysis:** Report covers data on consumer behaviour, preferences, and attitudes towards Specialty Gases for Semiconductor. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Consumer Electronics, Automotive Electronics).

**Technology Analysis:** Report covers specific technologies relevant to Specialty Gases for Semiconductor. It assesses the current state, advancements, and potential future developments in Specialty Gases for Semiconductor areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Specialty Gases for Semiconductor market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

**Market Validation:** The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

## Market Segmentation

Specialty Gases for Semiconductor market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

### Market segment by Type

Nitrogen Trifluoride

Silicon-Precursor Gases

Fluoroalkane

Ammonia

Others

#### Market segment by Application

Consumer Electronics

Automotive Electronics

Networking & Communications

Others

#### Major players covered

SK Materials (SK specialty)

Merck (Versum Materials)

Taiyo Nippon Sanso

Linde plc

Kanto Denka Kogyo

Hyosung

PERIC

Showa Denko

Mitsui Chemical

ChemChina

Shandong FeiYuan

Guangdong Huate Gas

Central Glass

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 Specialty Gases for Semiconductor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Specialty Gases for Semiconductor, with price, sales, revenue and global market share of Specialty Gases for Semiconductor from 2019 to 2024.

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

Chapter 4, the Specialty Gases for Semiconductor breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

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 2017 to 2023. and Specialty Gases for Semiconductor market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

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 Specialty Gases for Semiconductor.

Chapter 14 and 15, to describe Specialty Gases for Semiconductor sales channel, distributors, customers, research findings and conclusion.

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