

# Global Nitrogen Trifluoride Gas 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 Nitrogen Trifluoride Gas market size was valued at USD 156.4 million in 2023 and is forecast to a readjusted size of USD 214.2 million by 2030 with a CAGR of 4.6% during review period.

Nitrogen trifluoride gas is an inorganic compound with the chemical formula  $NF_3$ . It is insoluble in water and is a strong oxidant. It is an excellent plasma etching gas in the microelectronics industry and can also be used as a high-energy fuel.

According to our Semiconductor Research Center, in 2022, the global semiconductor materials was valued at US\$ 70.3 billion. The semiconductor materials are mainly dominated by companies from US, Japan and few European countries. China Taiwan, China mainland, South Korea the key three market, hold a combined share over 60 percent. United States, Japan, Europe and Southeast Asia are also key market, have a combined about 35 percent. The key drivers are high performance computing, AI, cloud computing, Servers, 5G and EV (electric vehicle), etc.

The Global Info Research report includes an overview of the development of the Nitrogen Trifluoride Gas industry chain, the market status of Solar Battery (Purity: 99.9%, Purity: 99.9%-99.99%), Semiconductor Chip (Purity: 99.9%, Purity: 99.9%-99.99%), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Nitrogen Trifluoride Gas.

Regionally, the report analyzes the Nitrogen Trifluoride Gas 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 Nitrogen Trifluoride Gas market, with robust domestic demand, supportive policies, and a strong manufacturing base.

#### Key Features:

The report presents comprehensive understanding of the Nitrogen Trifluoride Gas 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 Nitrogen Trifluoride Gas 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 (Tons), revenue generated, and market share of different by Type (e.g., Purity:99.9%, Purity:99.9%-99.99%).

**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 Nitrogen Trifluoride Gas market.

**Regional Analysis:** The report involves examining the Nitrogen Trifluoride Gas 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 Nitrogen Trifluoride Gas market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Nitrogen Trifluoride Gas:

**Company Analysis:** Report covers individual Nitrogen Trifluoride Gas 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 Nitrogen Trifluoride Gas. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Solar Battery, Semiconductor Chip).

**Technology Analysis:** Report covers specific technologies relevant to Nitrogen Trifluoride Gas. It assesses the current state, advancements, and potential future developments in Nitrogen Trifluoride Gas areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Nitrogen Trifluoride Gas 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

Nitrogen Trifluoride Gas 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

Purity: >99.9%

Purity: 99.9%-99.99%

Purity: <99.99%

### Market segment by Application

Solar Battery

Semiconductor Chip

Others

## Major players covered

EFC Gases & Advanced Materials

Anderson Development

American Gas Products

Middlesex Gases

Mitsui Chemicals, Inc.

SK Materials Co

Linde

Jinhong Gas Co., Ltd.

SIAD

Chengdu TAIYU Industrial Gases Co., Ltd.

## 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 Nitrogen Trifluoride Gas product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Nitrogen Trifluoride Gas, with price, sales, revenue and global market share of Nitrogen Trifluoride Gas from 2019 to 2024.

Chapter 3, the Nitrogen Trifluoride Gas competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Nitrogen Trifluoride Gas 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 Nitrogen Trifluoride Gas 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 Nitrogen Trifluoride Gas.

Chapter 14 and 15, to describe Nitrogen Trifluoride Gas sales channel, distributors, customers, research findings and conclusion.

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