

Global Microelectronics Nitrogen Trifluoride (NF₃) Market Growth 2026-2032

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Abstracts

The global Microelectronics Nitrogen Trifluoride (NF₃) market size is predicted to grow from US\$ 1858 million in 2025 to US\$ 4067 million in 2032; it is expected to grow at a CAGR of 12.1% from 2026 to 2032.

Microelectronics Nitrogen Trifluoride (NF₃) is a colorless, odorless, non-flammable, and chemically stable inorganic gas with strong oxidizing properties. It is primarily used as an advanced plasma etching gas in the semiconductor, flat panel display, and solar cell manufacturing industries. In plasma processes, NF₃ decomposes into highly reactive fluorine ions that offer excellent etching speed and selectivity for materials such as silicon and tungsten compounds. Furthermore, it leaves no residue on the etched surfaces, making it an ideal cleaning agent. Due to its superior cleaning performance and high etching efficiency, Microelectronics Nitrogen Trifluoride (NF₃) plays an indispensable role in modern microelectronics and precision manufacturing processing.

The global Microelectronics Nitrogen Trifluoride (NF₃) market is steadily growing. The Asia-Pacific region is the largest consumer market, accounting for approximately 85% of global revenue. In terms of production methods, electrolytic synthesis holds a significant market share, accounting for about 90% of the global market. Regarding applications, semiconductor chips are the primary application market for NF₃, accounting for about 57% of the global market.

The rapid growth of the semiconductor industry is the main driver of NF₃ demand. With the increasing demand for electronic devices, the semiconductor industry continues to grow. NF₃ is used in semiconductor manufacturing for cleaning and etching, playing a crucial role in ensuring chip quality and performance.

The expansion of the solar energy industry has also driven the demand for NF₃. NF₃ is used in the manufacturing process of solar cells to clean PECVD (plasma-enhanced chemical vapor deposition) chambers. As global demand for renewable energy increases, the solar energy industry's demand for NF₃ is also growing.

The demand from the flat panel display industry has also impacted the NF₃ market. NF₃ is used in the production of flat panel displays for cleaning equipment. With the proliferation of consumer electronic products, the flat panel display industry's demand for NF₃ is increasing.

However, environmental impact and regulatory constraints are major challenges facing the NF₃ market. NF₃ is a potent greenhouse gas with a global warming potential 17,200 times that of carbon dioxide. Due to this significant environmental impact, its production and usage are strictly regulated, particularly in regions such as Europe and North America. These environmental concerns are pushing companies to either invest in gas abatement technologies or explore alternative chemicals that pose lower environmental risks.

In addition to environmental concerns, the high production cost of Microelectronics Nitrogen Trifluoride (NF₃) also presents a challenge. The process requires high-purity raw materials and advanced synthesis technologies, particularly in the case of electrolyzing synthesis, which dominates the global production landscape. While this method offers high purity and efficient output, it significantly increases manufacturing costs. This factor restricts the broader adoption of NF₃ in industries where cost sensitivity is high or where alternative materials may offer lower expenses.

Despite these challenges, the global market for Microelectronics Nitrogen Trifluoride (NF₃) is expected to maintain its growth trajectory, primarily driven by technological advancements in its key application sectors. In semiconductor fabrication, NF₃ remains a preferred choice for chamber cleaning in plasma-enhanced chemical vapor deposition (PECVD) systems. It provides superior performance in terms of etching speed and residue-free processing, which is crucial for high-end chip manufacturing.

In the solar photovoltaic industry, NF₃ continues to be utilized for cleaning deposition chambers in the production of thin-film solar cells. This sector is benefiting from global investments in renewable energy and the push toward carbon neutrality. As countries and corporations commit to green energy transitions, the demand for solar panels—and consequently for NF₃—will likely rise.

Similarly, the flat panel display industry increasingly relies on NF₃ for cleaning applications. With consumer demand for high-definition, large-format displays in televisions, laptops, and mobile devices rising steadily, production lines require gases like NF₃ to maintain cleanliness and precision in the manufacturing process. This growing demand for consumer electronics, especially from emerging markets, further supports the upward trend in NF₃ consumption.

The dominance of electrolyzing synthesis in the production of Microelectronics Nitrogen Trifluoride (NF₃) underscores a trend toward higher quality and efficiency in gas production. This method ensures minimal impurities and high yield, catering to the stringent purity standards required by the semiconductor and photovoltaic sectors. As a result, manufacturers are investing in upgrading their production technologies to align with this prevailing method.

The Asia-Pacific region's leading role in the consumption of Microelectronics Nitrogen Trifluoride (NF₃) is attributable to its robust electronics manufacturing ecosystem, particularly in countries like China, South Korea, Taiwan, and Japan. These nations are home to some of the world's largest semiconductor fabs, display panel factories, and solar cell producers. The high concentration of end-user industries, coupled with favorable industrial policies and cost advantages, make the region a natural hub for both production and consumption of NF₃.

In summary, Microelectronics Nitrogen Trifluoride (NF₃) remains an indispensable material in several advanced manufacturing processes, particularly in the semiconductor, solar, and display industries. While environmental and cost challenges persist, the compound's performance advantages continue to support its widespread use. The dominance of the Asia-Pacific region, the prevalence of electrolyzing synthesis, and the leading role of semiconductor applications highlight the structural dynamics of the NF₃ market. As the global demand for cleaner, faster, and more precise production technologies grows, NF₃ is expected to remain at the forefront—provided that sustainability goals are effectively integrated into the industry's future roadmap.

LP Information, Inc. (LPI) 's newest research report, the “Microelectronics Nitrogen Trifluoride (NF₃) Industry Forecast” looks at past sales and reviews total world Microelectronics Nitrogen Trifluoride (NF₃) sales in 2025, providing a comprehensive analysis by region and market sector of projected Microelectronics Nitrogen Trifluoride (NF₃) sales for 2026 through 2032. With Microelectronics Nitrogen Trifluoride (NF₃) sales broken down by region, market sector and sub-sector, this report provides a

detailed analysis in US\$ millions of the world Microelectronics Nitrogen Trifluoride (NF3) industry.

This Insight Report provides a comprehensive analysis of the global Microelectronics Nitrogen Trifluoride (NF3) landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Microelectronics Nitrogen Trifluoride (NF3) portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Microelectronics Nitrogen Trifluoride (NF3) market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Microelectronics Nitrogen Trifluoride (NF3) and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Microelectronics Nitrogen Trifluoride (NF3).

This report presents a comprehensive overview, market shares, and growth opportunities of Microelectronics Nitrogen Trifluoride (NF3) market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Chemical Synthesis

Electrolyzing Synthesis

Segmentation by Application:

Semiconductor Chips

Flat Panel Display

Solar Cells

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

SK Materials

Hyosung

Kanto Denka Kogyo

Merck (Versum Materials)

PERIC

Mitsui Chemical

ChemChina

Shandong FeiYuan

Key Questions Addressed in this Report

What is the 10-year outlook for the global Microelectronics Nitrogen Trifluoride (NF3) market?

What factors are driving Microelectronics Nitrogen Trifluoride (NF3) market growth,

globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Microelectronics Nitrogen Trifluoride (NF3) market opportunities vary by end market size?

How does Microelectronics Nitrogen Trifluoride (NF3) break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview

- 2.1.1 Global Microelectronics Nitrogen Trifluoride (NF3) Annual Sales 2021-2032
 - 2.1.2 World Current & Future Analysis for Microelectronics Nitrogen Trifluoride (NF3) by Geographic Region, 2021, 2025 & 2032
 - 2.1.3 World Current & Future Analysis for Microelectronics Nitrogen Trifluoride (NF3) by Country/Region, 2021, 2025 & 2032
- #### 2.2 Microelectronics Nitrogen Trifluoride (NF3) Segment by Type
- 2.2.1 Chemical Synthesis
 - 2.2.2 Electrolyzing Synthesis
 - 2.2.3 Microelectronics Nitrogen Trifluoride (NF3) Sales by Type
 - 2.2.3.1 Global Microelectronics Nitrogen Trifluoride (NF3) Sales Market Share by Type (2021-2026)
 - 2.2.3.2 Global Microelectronics Nitrogen Trifluoride (NF3) Revenue and Market Share by Type (2021-2026)
 - 2.2.3.3 Global Microelectronics Nitrogen Trifluoride (NF3) Sale Price by Type (2021-2026)

2.3 Microelectronics Nitrogen Trifluoride (NF3) Segment by Application

- 2.3.1 Semiconductor Chips
- 2.3.2 Flat Panel Display
- 2.3.3 Solar Cells
- 2.3.4 Microelectronics Nitrogen Trifluoride (NF3) Sales by Application
 - 2.3.4.1 Global Microelectronics Nitrogen Trifluoride (NF3) Sale Market Share by Application (2021-2026)
 - 2.3.4.2 Global Microelectronics Nitrogen Trifluoride (NF3) Revenue and Market Share

by Application (2021-2026)

2.3.4.3 Global Microelectronics Nitrogen Trifluoride (NF3) Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Microelectronics Nitrogen Trifluoride (NF3) Breakdown Data by Company

3.1.1 Global Microelectronics Nitrogen Trifluoride (NF3) Annual Sales by Company (2021-2026)

3.1.2 Global Microelectronics Nitrogen Trifluoride (NF3) Sales Market Share by Company (2021-2026)

3.2 Global Microelectronics Nitrogen Trifluoride (NF3) Annual Revenue by Company (2021-2026)

3.2.1 Global Microelectronics Nitrogen Trifluoride (NF3) Revenue by Company (2021-2026)

3.2.2 Global Microelectronics Nitrogen Trifluoride (NF3) Revenue Market Share by Company (2021-2026)

3.3 Global Microelectronics Nitrogen Trifluoride (NF3) Sale Price by Company

3.4 Key Manufacturers Microelectronics Nitrogen Trifluoride (NF3) Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Microelectronics Nitrogen Trifluoride (NF3) Product Location Distribution

3.4.2 Players Microelectronics Nitrogen Trifluoride (NF3) Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR MICROELECTRONICS NITROGEN TRIFLUORIDE (NF3) BY GEOGRAPHIC REGION

4.1 World Historic Microelectronics Nitrogen Trifluoride (NF3) Market Size by Geographic Region (2021-2026)

4.1.1 Global Microelectronics Nitrogen Trifluoride (NF3) Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Microelectronics Nitrogen Trifluoride (NF3) Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Microelectronics Nitrogen Trifluoride (NF3) Market Size by

Country/Region (2021-2026)

4.2.1 Global Microelectronics Nitrogen Trifluoride (NF3) Annual Sales by Country/Region (2021-2026)

4.2.2 Global Microelectronics Nitrogen Trifluoride (NF3) Annual Revenue by Country/Region (2021-2026)

4.3 Americas Microelectronics Nitrogen Trifluoride (NF3) Sales Growth

4.4 APAC Microelectronics Nitrogen Trifluoride (NF3) Sales Growth

4.5 Europe Microelectronics Nitrogen Trifluoride (NF3) Sales Growth

4.6 Middle East & Africa Microelectronics Nitrogen Trifluoride (NF3) Sales Growth

5 AMERICAS

5.1 Americas Microelectronics Nitrogen Trifluoride (NF3) Sales by Country

5.1.1 Americas Microelectronics Nitrogen Trifluoride (NF3) Sales by Country (2021-2026)

5.1.2 Americas Microelectronics Nitrogen Trifluoride (NF3) Revenue by Country (2021-2026)

5.2 Americas Microelectronics Nitrogen Trifluoride (NF3) Sales by Type (2021-2026)

5.3 Americas Microelectronics Nitrogen Trifluoride (NF3) Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Microelectronics Nitrogen Trifluoride (NF3) Sales by Region

6.1.1 APAC Microelectronics Nitrogen Trifluoride (NF3) Sales by Region (2021-2026)

6.1.2 APAC Microelectronics Nitrogen Trifluoride (NF3) Revenue by Region (2021-2026)

6.2 APAC Microelectronics Nitrogen Trifluoride (NF3) Sales by Type (2021-2026)

6.3 APAC Microelectronics Nitrogen Trifluoride (NF3) Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Microelectronics Nitrogen Trifluoride (NF3) by Country

7.1.1 Europe Microelectronics Nitrogen Trifluoride (NF3) Sales by Country (2021-2026)

7.1.2 Europe Microelectronics Nitrogen Trifluoride (NF3) Revenue by Country (2021-2026)

7.2 Europe Microelectronics Nitrogen Trifluoride (NF3) Sales by Type (2021-2026)

7.3 Europe Microelectronics Nitrogen Trifluoride (NF3) Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Microelectronics Nitrogen Trifluoride (NF3) by Country

8.1.1 Middle East & Africa Microelectronics Nitrogen Trifluoride (NF3) Sales by Country (2021-2026)

8.1.2 Middle East & Africa Microelectronics Nitrogen Trifluoride (NF3) Revenue by Country (2021-2026)

8.2 Middle East & Africa Microelectronics Nitrogen Trifluoride (NF3) Sales by Type (2021-2026)

8.3 Middle East & Africa Microelectronics Nitrogen Trifluoride (NF3) Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Microelectronics Nitrogen Trifluoride (NF3)

10.3 Manufacturing Process Analysis of Microelectronics Nitrogen Trifluoride (NF3)

10.4 Industry Chain Structure of Microelectronics Nitrogen Trifluoride (NF3)

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Microelectronics Nitrogen Trifluoride (NF3) Distributors

11.3 Microelectronics Nitrogen Trifluoride (NF3) Customer

12 WORLD FORECAST REVIEW FOR MICROELECTRONICS NITROGEN TRIFLUORIDE (NF3) BY GEOGRAPHIC REGION

12.1 Global Microelectronics Nitrogen Trifluoride (NF3) Market Size Forecast by Region

12.1.1 Global Microelectronics Nitrogen Trifluoride (NF3) Forecast by Region (2027-2032)

12.1.2 Global Microelectronics Nitrogen Trifluoride (NF3) Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global Microelectronics Nitrogen Trifluoride (NF3) Forecast by Type (2027-2032)

12.7 Global Microelectronics Nitrogen Trifluoride (NF3) Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 SK Materials

13.1.1 SK Materials Company Information

13.1.2 SK Materials Microelectronics Nitrogen Trifluoride (NF3) Product Portfolios and

Specifications

13.1.3 SK Materials Microelectronics Nitrogen Trifluoride (NF3) Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 SK Materials Main Business Overview

13.1.5 SK Materials Latest Developments

13.2 Hyosung

13.2.1 Hyosung Company Information

13.2.2 Hyosung Microelectronics Nitrogen Trifluoride (NF3) Product Portfolios and Specifications

13.2.3 Hyosung Microelectronics Nitrogen Trifluoride (NF3) Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Hyosung Main Business Overview

13.2.5 Hyosung Latest Developments

13.3 Kanto Denka Kogyo

13.3.1 Kanto Denka Kogyo Company Information

13.3.2 Kanto Denka Kogyo Microelectronics Nitrogen Trifluoride (NF3) Product Portfolios and Specifications

13.3.3 Kanto Denka Kogyo Microelectronics Nitrogen Trifluoride (NF3) Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 Kanto Denka Kogyo Main Business Overview

13.3.5 Kanto Denka Kogyo Latest Developments

13.4 Merck (Versum Materials)

13.4.1 Merck (Versum Materials) Company Information

13.4.2 Merck (Versum Materials) Microelectronics Nitrogen Trifluoride (NF3) Product Portfolios and Specifications

13.4.3 Merck (Versum Materials) Microelectronics Nitrogen Trifluoride (NF3) Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 Merck (Versum Materials) Main Business Overview

13.4.5 Merck (Versum Materials) Latest Developments

13.5 PERIC

13.5.1 PERIC Company Information

13.5.2 PERIC Microelectronics Nitrogen Trifluoride (NF3) Product Portfolios and Specifications

13.5.3 PERIC Microelectronics Nitrogen Trifluoride (NF3) Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 PERIC Main Business Overview

13.5.5 PERIC Latest Developments

13.6 Mitsui Chemical

13.6.1 Mitsui Chemical Company Information

13.6.2 Mitsui Chemical Microelectronics Nitrogen Trifluoride (NF3) Product Portfolios and Specifications

13.6.3 Mitsui Chemical Microelectronics Nitrogen Trifluoride (NF3) Sales, Revenue, Price and Gross Margin (2021-2026)

13.6.4 Mitsui Chemical Main Business Overview

13.6.5 Mitsui Chemical Latest Developments

13.7 ChemChina

13.7.1 ChemChina Company Information

13.7.2 ChemChina Microelectronics Nitrogen Trifluoride (NF3) Product Portfolios and Specifications

13.7.3 ChemChina Microelectronics Nitrogen Trifluoride (NF3) Sales, Revenue, Price and Gross Margin (2021-2026)

13.7.4 ChemChina Main Business Overview

13.7.5 ChemChina Latest Developments

13.8 Shandong FeiYuan

13.8.1 Shandong FeiYuan Company Information

13.8.2 Shandong FeiYuan Microelectronics Nitrogen Trifluoride (NF3) Product Portfolios and Specifications

13.8.3 Shandong FeiYuan Microelectronics Nitrogen Trifluoride (NF3) Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 Shandong FeiYuan Main Business Overview

13.8.5 Shandong FeiYuan Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Microelectronics Nitrogen Trifluoride (NF3) Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Microelectronics Nitrogen Trifluoride (NF3) Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Chemical Synthesis

Table 4. Major Players of Electrolyzing Synthesis

Table 5. Global Microelectronics Nitrogen Trifluoride (NF3) Sales by Type (2021-2026) & (Tons)

Table 6. Global Microelectronics Nitrogen Trifluoride (NF3) Sales Market Share by Type (2021-2026)

Table 7. Global Microelectronics Nitrogen Trifluoride (NF3) Revenue by Type (2021-2026) & (\$ million)

Table 8. Global Microelectronics Nitrogen Trifluoride (NF3) Revenue Market Share by Type (2021-2026)

Table 9. Global Microelectronics Nitrogen Trifluoride (NF3) Sale Price by Type (2021-2026) & (US\$/Ton)

Table 10. Global Microelectronics Nitrogen Trifluoride (NF3) Sale by Application (2021-2026) & (Tons)

Table 11. Global Microelectronics Nitrogen Trifluoride (NF3) Sale Market Share by Application (2021-2026)

Table 12. Global Microelectronics Nitrogen Trifluoride (NF3) Revenue by Application (2021-2026) & (\$ million)

Table 13. Global Microelectronics Nitrogen Trifluoride (NF3) Revenue Market Share by Application (2021-2026)

Table 14. Global Microelectronics Nitrogen Trifluoride (NF3) Sale Price by Application (2021-2026) & (US\$/Ton)

Table 15. Global Microelectronics Nitrogen Trifluoride (NF3) Sales by Company (2021-2026) & (Tons)

Table 16. Global Microelectronics Nitrogen Trifluoride (NF3) Sales Market Share by Company (2021-2026)

Table 17. Global Microelectronics Nitrogen Trifluoride (NF3) Revenue by Company (2021-2026) & (\$ millions)

Table 18. Global Microelectronics Nitrogen Trifluoride (NF3) Revenue Market Share by Company (2021-2026)

Table 19. Global Microelectronics Nitrogen Trifluoride (NF3) Sale Price by Company

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

Table 20. Key Manufacturers Microelectronics Nitrogen Trifluoride (NF3) Producing Area Distribution and Sales Area

Table 21. Players Microelectronics Nitrogen Trifluoride (NF3) Products Offered

Table 22. Microelectronics Nitrogen Trifluoride (NF3) Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 23. New Products and Potential Entrants

Table 24. Market M&A Activity & Strategy

Table 25. Global Microelectronics Nitrogen Trifluoride (NF3) Sales by Geographic Region (2021-2026) & (Tons)

Table 26. Global Microelectronics Nitrogen Trifluoride (NF3) Sales Market Share Geographic Region (2021-2026)

Table 27. Global Microelectronics Nitrogen Trifluoride (NF3) Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 28. Global Microelectronics Nitrogen Trifluoride (NF3) Revenue Market Share by Geographic Region (2021-2026)

Table 29. Global Microelectronics Nitrogen Trifluoride (NF3) Sales by Country/Region (2021-2026) & (Tons)

Table 30. Global Microelectronics Nitrogen Trifluoride (NF3) Sales Market Share by Country/Region (2021-2026)

Table 31. Global Microelectronics Nitrogen Trifluoride (NF3) Revenue by Country/Region (2021-2026) & (\$ millions)

Table 32. Global Microelectronics Nitrogen Trifluoride (NF3) Revenue Market Share by Country/Region (2021-2026)

Table 33. Americas Microelectronics Nitrogen Trifluoride (NF3) Sales by Country (2021-2026) & (Tons)

Table 34. Americas Microelectronics Nitrogen Trifluoride (NF3) Sales Market Share by Country (2021-2026)

Table 35. Americas Microelectronics Nitrogen Trifluoride (NF3) Revenue by Country (2021-2026) & (\$ millions)

Table 36. Americas Microelectronics Nitrogen Trifluoride (NF3) Sales by Type (2021-2026) & (Tons)

Table 37. Americas Microelectronics Nitrogen Trifluoride (NF3) Sales by Application (2021-2026) & (Tons)

Table 38. APAC Microelectronics Nitrogen Trifluoride (NF3) Sales by Region (2021-2026) & (Tons)

Table 39. APAC Microelectronics Nitrogen Trifluoride (NF3) Sales Market Share by Region (2021-2026)

Table 40. APAC Microelectronics Nitrogen Trifluoride (NF3) Revenue by Region

(2021-2026) & (\$ millions)

Table 41. APAC Microelectronics Nitrogen Trifluoride (NF3) Sales by Type (2021-2026) & (Tons)

Table 42. APAC Microelectronics Nitrogen Trifluoride (NF3) Sales by Application (2021-2026) & (Tons)

Table 43. Europe Microelectronics Nitrogen Trifluoride (NF3) Sales by Country (2021-2026) & (Tons)

Table 44. Europe Microelectronics Nitrogen Trifluoride (NF3) Revenue by Country (2021-2026) & (\$ millions)

Table 45. Europe Microelectronics Nitrogen Trifluoride (NF3) Sales by Type (2021-2026) & (Tons)

Table 46. Europe Microelectronics Nitrogen Trifluoride (NF3) Sales by Application (2021-2026) & (Tons)

Table 47. Middle East & Africa Microelectronics Nitrogen Trifluoride (NF3) Sales by Country (2021-2026) & (Tons)

Table 48. Middle East & Africa Microelectronics Nitrogen Trifluoride (NF3) Revenue Market Share by Country (2021-2026)

Table 49. Middle East & Africa Microelectronics Nitrogen Trifluoride (NF3) Sales by Type (2021-2026) & (Tons)

Table 50. Middle East & Africa Microelectronics Nitrogen Trifluoride (NF3) Sales by Application (2021-2026) & (Tons)

Table 51. Key Market Drivers & Growth Opportunities of Microelectronics Nitrogen Trifluoride (NF3)

Table 52. Key Market Challenges & Risks of Microelectronics Nitrogen Trifluoride (NF3)

Table 53. Key Industry Trends of Microelectronics Nitrogen Trifluoride (NF3)

Table 54. Microelectronics Nitrogen Trifluoride (NF3) Raw Material

Table 55. Key Suppliers of Raw Materials

Table 56. Microelectronics Nitrogen Trifluoride (NF3) Distributors List

Table 57. Microelectronics Nitrogen Trifluoride (NF3) Customer List

Table 58. Global Microelectronics Nitrogen Trifluoride (NF3) Sales Forecast by Region (2027-2032) & (Tons)

Table 59. Global Microelectronics Nitrogen Trifluoride (NF3) Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 60. Americas Microelectronics Nitrogen Trifluoride (NF3) Sales Forecast by Country (2027-2032) & (Tons)

Table 61. Americas Microelectronics Nitrogen Trifluoride (NF3) Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 62. APAC Microelectronics Nitrogen Trifluoride (NF3) Sales Forecast by Region (2027-2032) & (Tons)

- Table 63. APAC Microelectronics Nitrogen Trifluoride (NF3) Annual Revenue Forecast by Region (2027-2032) & (\$ millions)
- Table 64. Europe Microelectronics Nitrogen Trifluoride (NF3) Sales Forecast by Country (2027-2032) & (Tons)
- Table 65. Europe Microelectronics Nitrogen Trifluoride (NF3) Revenue Forecast by Country (2027-2032) & (\$ millions)
- Table 66. Middle East & Africa Microelectronics Nitrogen Trifluoride (NF3) Sales Forecast by Country (2027-2032) & (Tons)
- Table 67. Middle East & Africa Microelectronics Nitrogen Trifluoride (NF3) Revenue Forecast by Country (2027-2032) & (\$ millions)
- Table 68. Global Microelectronics Nitrogen Trifluoride (NF3) Sales Forecast by Type (2027-2032) & (Tons)
- Table 69. Global Microelectronics Nitrogen Trifluoride (NF3) Revenue Forecast by Type (2027-2032) & (\$ millions)
- Table 70. Global Microelectronics Nitrogen Trifluoride (NF3) Sales Forecast by Application (2027-2032) & (Tons)
- Table 71. Global Microelectronics Nitrogen Trifluoride (NF3) Revenue Forecast by Application (2027-2032) & (\$ millions)
- Table 72. SK Materials Basic Information, Microelectronics Nitrogen Trifluoride (NF3) Manufacturing Base, Sales Area and Its Competitors
- Table 73. SK Materials Microelectronics Nitrogen Trifluoride (NF3) Product Portfolios and Specifications
- Table 74. SK Materials Microelectronics Nitrogen Trifluoride (NF3) Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)
- Table 75. SK Materials Main Business
- Table 76. SK Materials Latest Developments
- Table 77. Hyosung Basic Information, Microelectronics Nitrogen Trifluoride (NF3) Manufacturing Base, Sales Area and Its Competitors
- Table 78. Hyosung Microelectronics Nitrogen Trifluoride (NF3) Product Portfolios and Specifications
- Table 79. Hyosung Microelectronics Nitrogen Trifluoride (NF3) Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)
- Table 80. Hyosung Main Business
- Table 81. Hyosung Latest Developments
- Table 82. Kanto Denka Kogyo Basic Information, Microelectronics Nitrogen Trifluoride (NF3) Manufacturing Base, Sales Area and Its Competitors
- Table 83. Kanto Denka Kogyo Microelectronics Nitrogen Trifluoride (NF3) Product Portfolios and Specifications
- Table 84. Kanto Denka Kogyo Microelectronics Nitrogen Trifluoride (NF3) Sales (Tons),

Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 85. Kanto Denka Kogyo Main Business

Table 86. Kanto Denka Kogyo Latest Developments

Table 87. Merck (Versum Materials) Basic Information, Microelectronics Nitrogen Trifluoride (NF3) Manufacturing Base, Sales Area and Its Competitors

Table 88. Merck (Versum Materials) Microelectronics Nitrogen Trifluoride (NF3) Product Portfolios and Specifications

Table 89. Merck (Versum Materials) Microelectronics Nitrogen Trifluoride (NF3) Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 90. Merck (Versum Materials) Main Business

Table 91. Merck (Versum Materials) Latest Developments

Table 92. PERIC Basic Information, Microelectronics Nitrogen Trifluoride (NF3) Manufacturing Base, Sales Area and Its Competitors

Table 93. PERIC Microelectronics Nitrogen Trifluoride (NF3) Product Portfolios and Specifications

Table 94. PERIC Microelectronics Nitrogen Trifluoride (NF3) Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 95. PERIC Main Business

Table 96. PERIC Latest Developments

Table 97. Mitsui Chemical Basic Information, Microelectronics Nitrogen Trifluoride (NF3) Manufacturing Base, Sales Area and Its Competitors

Table 98. Mitsui Chemical Microelectronics Nitrogen Trifluoride (NF3) Product Portfolios and Specifications

Table 99. Mitsui Chemical Microelectronics Nitrogen Trifluoride (NF3) Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 100. Mitsui Chemical Main Business

Table 101. Mitsui Chemical Latest Developments

Table 102. ChemChina Basic Information, Microelectronics Nitrogen Trifluoride (NF3) Manufacturing Base, Sales Area and Its Competitors

Table 103. ChemChina Microelectronics Nitrogen Trifluoride (NF3) Product Portfolios and Specifications

Table 104. ChemChina Microelectronics Nitrogen Trifluoride (NF3) Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 105. ChemChina Main Business

Table 106. ChemChina Latest Developments

Table 107. Shandong FeiYuan Basic Information, Microelectronics Nitrogen Trifluoride (NF3) Manufacturing Base, Sales Area and Its Competitors

Table 108. Shandong FeiYuan Microelectronics Nitrogen Trifluoride (NF3) Product Portfolios and Specifications

Table 109. Shandong FeiYuan Microelectronics Nitrogen Trifluoride (NF3) Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 110. Shandong FeiYuan Main Business

Table 111. Shandong FeiYuan Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Microelectronics Nitrogen Trifluoride (NF3)
- Figure 2. Microelectronics Nitrogen Trifluoride (NF3) Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Microelectronics Nitrogen Trifluoride (NF3) Sales Growth Rate 2021-2032 (Tons)
- Figure 7. Global Microelectronics Nitrogen Trifluoride (NF3) Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Microelectronics Nitrogen Trifluoride (NF3) Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Microelectronics Nitrogen Trifluoride (NF3) Sales Market Share by Country/Region (2025)
- Figure 10. Microelectronics Nitrogen Trifluoride (NF3) Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Chemical Synthesis
- Figure 12. Product Picture of Electrolyzing Synthesis
- Figure 13. Global Microelectronics Nitrogen Trifluoride (NF3) Sales Market Share by Type in 2026
- Figure 14. Global Microelectronics Nitrogen Trifluoride (NF3) Revenue Market Share by Type (2021-2026)
- Figure 15. Microelectronics Nitrogen Trifluoride (NF3) Consumed in Semiconductor Chips
- Figure 16. Global Microelectronics Nitrogen Trifluoride (NF3) Market: Semiconductor Chips (2021-2026) & (Tons)
- Figure 17. Microelectronics Nitrogen Trifluoride (NF3) Consumed in Flat Panel Display
- Figure 18. Global Microelectronics Nitrogen Trifluoride (NF3) Market: Flat Panel Display (2021-2026) & (Tons)
- Figure 19. Microelectronics Nitrogen Trifluoride (NF3) Consumed in Solar Cells
- Figure 20. Global Microelectronics Nitrogen Trifluoride (NF3) Market: Solar Cells (2021-2026) & (Tons)
- Figure 21. Global Microelectronics Nitrogen Trifluoride (NF3) Sale Market Share by Application (2025)
- Figure 22. Global Microelectronics Nitrogen Trifluoride (NF3) Revenue Market Share by Application in 2026

Figure 23. Microelectronics Nitrogen Trifluoride (NF3) Sales by Company in 2026 (Tons)

Figure 24. Global Microelectronics Nitrogen Trifluoride (NF3) Sales Market Share by Company in 2026

Figure 25. Microelectronics Nitrogen Trifluoride (NF3) Revenue by Company in 2026 (\$ millions)

Figure 26. Global Microelectronics Nitrogen Trifluoride (NF3) Revenue Market Share by Company in 2026

Figure 27. Global Microelectronics Nitrogen Trifluoride (NF3) Sales Market Share by Geographic Region (2021-2026)

Figure 28. Global Microelectronics Nitrogen Trifluoride (NF3) Revenue Market Share by Geographic Region in 2026

Figure 29. Americas Microelectronics Nitrogen Trifluoride (NF3) Sales 2021-2026 (Tons)

Figure 30. Americas Microelectronics Nitrogen Trifluoride (NF3) Revenue 2021-2026 (\$ millions)

Figure 31. APAC Microelectronics Nitrogen Trifluoride (NF3) Sales 2021-2026 (Tons)

Figure 32. APAC Microelectronics Nitrogen Trifluoride (NF3) Revenue 2021-2026 (\$ millions)

Figure 33. Europe Microelectronics Nitrogen Trifluoride (NF3) Sales 2021-2026 (Tons)

Figure 34. Europe Microelectronics Nitrogen Trifluoride (NF3) Revenue 2021-2026 (\$ millions)

Figure 35. Middle East & Africa Microelectronics Nitrogen Trifluoride (NF3) Sales 2021-2026 (Tons)

Figure 36. Middle East & Africa Microelectronics Nitrogen Trifluoride (NF3) Revenue 2021-2026 (\$ millions)

Figure 37. Americas Microelectronics Nitrogen Trifluoride (NF3) Sales Market Share by Country in 2026

Figure 38. Americas Microelectronics Nitrogen Trifluoride (NF3) Revenue Market Share by Country (2021-2026)

Figure 39. Americas Microelectronics Nitrogen Trifluoride (NF3) Sales Market Share by Type (2021-2026)

Figure 40. Americas Microelectronics Nitrogen Trifluoride (NF3) Sales Market Share by Application (2021-2026)

Figure 41. United States Microelectronics Nitrogen Trifluoride (NF3) Revenue Growth 2021-2026 (\$ millions)

Figure 42. Canada Microelectronics Nitrogen Trifluoride (NF3) Revenue Growth 2021-2026 (\$ millions)

Figure 43. Mexico Microelectronics Nitrogen Trifluoride (NF3) Revenue Growth

2021-2026 (\$ millions)

Figure 44. Brazil Microelectronics Nitrogen Trifluoride (NF3) Revenue Growth

2021-2026 (\$ millions)

Figure 45. APAC Microelectronics Nitrogen Trifluoride (NF3) Sales Market Share by Region in 2026

Figure 46. APAC Microelectronics Nitrogen Trifluoride (NF3) Revenue Market Share by Region (2021-2026)

Figure 47. APAC Microelectronics Nitrogen Trifluoride (NF3) Sales Market Share by Type (2021-2026)

Figure 48. APAC Microelectronics Nitrogen Trifluoride (NF3) Sales Market Share by Application (2021-2026)

Figure 49. China Microelectronics Nitrogen Trifluoride (NF3) Revenue Growth 2021-2026 (\$ millions)

Figure 50. Japan Microelectronics Nitrogen Trifluoride (NF3) Revenue Growth 2021-2026 (\$ millions)

Figure 51. South Korea Microelectronics Nitrogen Trifluoride (NF3) Revenue Growth 2021-2026 (\$ millions)

Figure 52. Southeast Asia Microelectronics Nitrogen Trifluoride (NF3) Revenue Growth 2021-2026 (\$ millions)

Figure 53. India Microelectronics Nitrogen Trifluoride (NF3) Revenue Growth 2021-2026 (\$ millions)

Figure 54. Australia Microelectronics Nitrogen Trifluoride (NF3) Revenue Growth 2021-2026 (\$ millions)

Figure 55. China Taiwan Microelectronics Nitrogen Trifluoride (NF3) Revenue Growth 2021-2026 (\$ millions)

Figure 56. Europe Microelectronics Nitrogen Trifluoride (NF3) Sales Market Share by Country in 2026

Figure 57. Europe Microelectronics Nitrogen Trifluoride (NF3) Revenue Market Share by Country (2021-2026)

Figure 58. Europe Microelectronics Nitrogen Trifluoride (NF3) Sales Market Share by Type (2021-2026)

Figure 59. Europe Microelectronics Nitrogen Trifluoride (NF3) Sales Market Share by Application (2021-2026)

Figure 60. Germany Microelectronics Nitrogen Trifluoride (NF3) Revenue Growth 2021-2026 (\$ millions)

Figure 61. France Microelectronics Nitrogen Trifluoride (NF3) Revenue Growth 2021-2026 (\$ millions)

Figure 62. UK Microelectronics Nitrogen Trifluoride (NF3) Revenue Growth 2021-2026 (\$ millions)

Figure 63. Italy Microelectronics Nitrogen Trifluoride (NF3) Revenue Growth 2021-2026 (\$ millions)

Figure 64. Russia Microelectronics Nitrogen Trifluoride (NF3) Revenue Growth 2021-2026 (\$ millions)

Figure 65. Middle East & Africa Microelectronics Nitrogen Trifluoride (NF3) Sales Market Share by Country (2021-2026)

Figure 66. Middle East & Africa Microelectronics Nitrogen Trifluoride (NF3) Sales Market Share by Type (2021-2026)

Figure 67. Middle East & Africa Microelectronics Nitrogen Trifluoride (NF3) Sales Market Share by Application (2021-2026)

Figure 68. Egypt Microelectronics Nitrogen Trifluoride (NF3) Revenue Growth 2021-2026 (\$ millions)

Figure 69. South Africa Microelectronics Nitrogen Trifluoride (NF3) Revenue Growth 2021-2026 (\$ millions)

Figure 70. Israel Microelectronics Nitrogen Trifluoride (NF3) Revenue Growth 2021-2026 (\$ millions)

Figure 71. Turkey Microelectronics Nitrogen Trifluoride (NF3) Revenue Growth 2021-2026 (\$ millions)

Figure 72. GCC Countries Microelectronics Nitrogen Trifluoride (NF3) Revenue Growth 2021-2026 (\$ millions)

Figure 73. Manufacturing Cost Structure Analysis of Microelectronics Nitrogen Trifluoride (NF3) in 2026

Figure 74. Manufacturing Process Analysis of Microelectronics Nitrogen Trifluoride (NF3)

Figure 75. Industry Chain Structure of Microelectronics Nitrogen Trifluoride (NF3)

Figure 76. Channels of Distribution

Figure 77. Global Microelectronics Nitrogen Trifluoride (NF3) Sales Market Forecast by Region (2027-2032)

Figure 78. Global Microelectronics Nitrogen Trifluoride (NF3) Revenue Market Share Forecast by Region (2027-2032)

Figure 79. Global Microelectronics Nitrogen Trifluoride (NF3) Sales Market Share Forecast by Type (2027-2032)

Figure 80. Global Microelectronics Nitrogen Trifluoride (NF3) Revenue Market Share Forecast by Type (2027-2032)

Figure 81. Global Microelectronics Nitrogen Trifluoride (NF3) Sales Market Share Forecast by Application (2027-2032)

Figure 82. Global Microelectronics Nitrogen Trifluoride (NF3) Revenue Market Share Forecast by Application (2027-2032)

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