

Global Nitrosyl Fluoride Gas Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Nitrosyl Fluoride Gas market size was valued at US\$ 8.06 million in 2025 and is forecast to a readjusted size of US\$ 19.81 million by 2032 with a CAGR of 12.7% during review period.

In 2025, global Nitrosyl Fluoride Gas capacity 10 Tons, sales reached approximately 9 Tons, with an average market price of around 870 USD/Kg, industrial gross margin 41%.

Nitrosyl fluoride is a highly reactive fluorine-containing nitrogen oxide whose commercial value is increasingly tied to differentiated semiconductor etch chemistry rather than conventional bulk fluorination. The molecule has a molecular weight of 49.0045 g/mol and a normal boiling point of approximately -59.9°C , making containment, purification and delivery central elements of the product proposition. Semiconductor-oriented technology covers purity levels from 99% to >99.99% and >99.999%, with tighter specifications extending beyond headline assay to F?NO , nitrogen oxides, moisture and other trace gases. Air Liquide's process disclosures, for example, contemplate F?NO below 1%, with preferred thresholds of 0.1% and 0.01%, while water can be controlled below 20 ppmw in high-selectivity etch applications. This study defines the addressable market as merchant industrial- and electronic-grade NOF, including commercial NOF-containing process mixtures on a 100%-NOF-equivalent basis, while excluding laboratory reagents, analytical standards and NOF generated in situ inside customer processes without a merchant-gas transaction.

The industrial technology stack has moved beyond basic synthesis toward high-purity conversion, by-product suppression, cylinder compatibility and reproducible point-of-use

delivery. Direct reaction of fluorine with nitric oxide— $F_2 + 2NO \rightarrow 2FNO$ —is one of the most relevant routes for electronic-grade production, with F_2/NO ratios controlled at or below 1/2 to suppress formation of F_2NO . Recent Chinese process development uses the same underlying chemistry while diluting fluorine with inert gas and precooling the feed before reaction. Alternative industrial pathways include $NO/O_2/HF$ chemistry producing NOF in an HF medium for aromatic fluorination, as well as legacy nitrosyl-sulfuric-acid/HF and nitrite/HF processes. For semiconductor supply, however, competitive advantage resides less in the stoichiometry than in deep purification, trace-gas analytics, moisture control, surface passivation and packaging. Air Liquide has disclosed Ni-P-coated 4130X cylinders and compatible high-cleanliness delivery hardware, while Resonac has demonstrated kilogram-scale NOF storage in a 10-liter vessel and storage-pressure windows extending from 0.05 to 5 MPa.

Selective dry etching of silicon nitride in advanced memory architectures is the clearest commercial use case, because increasingly complex 3D structures place a premium on material selectivity rather than fluorine-radical generation alone. Air Liquide's disclosed process space covers SiN or polysilicon selectivity to SiO_2 of roughly 10–3,000, with narrower preferred ranges of 20–2,000, and high-aspect-ratio structures extending from approximately 10:1 to 1,000:1. SK Specialty has separately disclosed FNO reaction-gas concentrations of at least 20 vol%, preferably at least 25 vol%, with plasma-processing pressures around 100 mTorr to 1 Torr. These conditions shift procurement criteria toward controlled impurity fingerprints, premix consistency, cylinder stability, flow repeatability and wafer-level process qualification. Outside semiconductors, NOF chemistry is also applicable to diazotization/fluorination routes for aryl fluorides, while 2025 research has investigated NOF-based GaN surface treatment; both remain secondary to semiconductor etch as merchant-gas demand drivers.

The competitive landscape remains unusually narrow, with only a small group of specialty-gas companies showing verifiable NOF-specific process, storage or semiconductor-application capability. Air Liquide has the broadest publicly visible portfolio across selective etching and F_2/NO -controlled storage and supply; Resonac has developed an increasingly integrated patent estate around etching, storage and gas analysis; and SK Specialty disclosed dedicated FNO etch technology in 2025. The ownership structure of the Korean platform changed materially on March 31, 2025, when Hahn & Company completed the acquisition of an 85% interest in SK Specialty from SK Inc, while SK retained 15%; the transaction valued the company at approximately KRW4.172 trillion, with roughly KRW2.7 trillion attributed to the shares sold. Although this was a platform-level specialty-gas transaction rather than an NOF-specific acquisition, it transferred control of an FNO technology participant to a private-

equity owner. In China, Huate Gas published a dedicated NOF preparation patent in 2026, while India's Deepak Nitrite has developed a separate NOF/HF route focused on industrial fluorination chemistry.

The next phase of market development will be determined by process insertion in advanced NAND, qualification of second sources and conversion of laboratory-scale or patent-stage chemistry into stable multi-region electronic-gas supply. Demand growth is likely to be concentrated in high-layer-count 3D NAND and other structures where high-aspect-ratio etching and SiN/SiO₂ selectivity become more demanding. Technology development will emphasize 4N–5N-plus purity, lower F₂/NO and moisture, premixed concentrations, lower on-site hazardous inventory and more robust cylinder passivation. Supply-chain competition should favor incumbent electronic-gas companies with integrated F₂/NO sourcing, ultratrace analytics, customer-audit systems and local fab logistics, while Chinese localization creates an additional route for qualification-driven share gains. The principal constraints remain difficult handling, relatively long fab qualification cycles, a limited number of process steps, and continued competition from NF₃, F₂, other fluorinated etchants and in-situ NOF generation.

Report Scope

This report is a detailed and comprehensive analysis for global Nitrosyl Fluoride Gas market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Purity and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Nitrosyl Fluoride Gas market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2021-2032

Global Nitrosyl Fluoride Gas market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2021-2032

Global Nitrosyl Fluoride Gas market size and forecasts, by Purity and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2021-2032

Global Nitrosyl Fluoride Gas market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/kg), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Nitrosyl Fluoride Gas

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Nitrosyl Fluoride Gas market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Air Liquide, Resonac, Guangdong Huate Gas, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Nitrosyl Fluoride Gas market is split by Purity and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Purity, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market Segmentation

Market segment by Purity

99%

99.9%

Market segment by Grade

Industrial Grade

Electronic Grade

Market segment by Application

Semiconductor Etch

Fluoroaromatic Synthesis

Others

Major players covered

Air Liquide

Resonac

Guangdong Huate Gas

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)

Chapter Outline

Chapter 1, to describe Nitrosyl Fluoride Gas product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Nitrosyl Fluoride Gas, with price, sales quantity, revenue, and global market share of Nitrosyl Fluoride Gas from 2021 to 2026.

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

Chapter 4, the Nitrosyl Fluoride Gas breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Purity and by Application, with sales market share and growth rate by Purity, by Application, from 2021 to 2032.

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 2021 to 2026. and Nitrosyl Fluoride Gas market forecast, by regions, by Purity, and by Application, with sales and revenue, from 2027 to 2032.

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 Nitrosyl Fluoride Gas.

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

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Purity

1.3.1 Overview: Global Nitrosyl Fluoride Gas Consumption Value by Purity: 2021 Versus 2025 Versus 2032

1.3.2 ≥99%

1.3.3 ≥99.9%

1.4 Market Analysis by Grade

1.4.1 Overview: Global Nitrosyl Fluoride Gas Consumption Value by Grade: 2021 Versus 2025 Versus 2032

1.4.2 Industrial Grade

1.4.3 Electronic Grade

1.5 Market Analysis by Application

1.5.1 Overview: Global Nitrosyl Fluoride Gas Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.5.2 Semiconductor Etch

1.5.3 Fluoroaromatic Synthesis

1.5.4 Others

1.6 Global Nitrosyl Fluoride Gas Market Size & Forecast

1.6.1 Global Nitrosyl Fluoride Gas Consumption Value (2021 & 2025 & 2032)

1.6.2 Global Nitrosyl Fluoride Gas Sales Quantity (2021-2032)

1.6.3 Global Nitrosyl Fluoride Gas Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 Air Liquide

2.1.1 Air Liquide Details

2.1.2 Air Liquide Major Business

2.1.3 Air Liquide Nitrosyl Fluoride Gas Product and Services

2.1.4 Air Liquide Nitrosyl Fluoride Gas Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 Air Liquide Recent Developments/Updates

2.2 Resonac

2.2.1 Resonac Details

2.2.2 Resonac Major Business

- 2.2.3 Resonac Nitrosyl Fluoride Gas Product and Services
- 2.2.4 Resonac Nitrosyl Fluoride Gas Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.2.5 Resonac Recent Developments/Updates
- 2.3 Guangdong Huate Gas
 - 2.3.1 Guangdong Huate Gas Details
 - 2.3.2 Guangdong Huate Gas Major Business
 - 2.3.3 Guangdong Huate Gas Nitrosyl Fluoride Gas Product and Services
 - 2.3.4 Guangdong Huate Gas Nitrosyl Fluoride Gas Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.3.5 Guangdong Huate Gas Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: NITROSYL FLUORIDE GAS BY MANUFACTURER

- 3.1 Global Nitrosyl Fluoride Gas Sales Quantity by Manufacturer (2021-2026)
- 3.2 Global Nitrosyl Fluoride Gas Revenue by Manufacturer (2021-2026)
- 3.3 Global Nitrosyl Fluoride Gas Average Price by Manufacturer (2021-2026)
- 3.4 Market Share Analysis (2025)
 - 3.4.1 Producer Shipments of Nitrosyl Fluoride Gas by Manufacturer Revenue (\$MM) and Market Share (%): 2025
 - 3.4.2 Top 3 Nitrosyl Fluoride Gas Manufacturer Market Share in 2025
 - 3.4.3 Top 6 Nitrosyl Fluoride Gas Manufacturer Market Share in 2025
- 3.5 Nitrosyl Fluoride Gas Market: Overall Company Footprint Analysis
 - 3.5.1 Nitrosyl Fluoride Gas Market: Region Footprint
 - 3.5.2 Nitrosyl Fluoride Gas Market: Company Product Type Footprint
 - 3.5.3 Nitrosyl Fluoride Gas Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

- 4.1 Global Nitrosyl Fluoride Gas Market Size by Region
 - 4.1.1 Global Nitrosyl Fluoride Gas Sales Quantity by Region (2021-2032)
 - 4.1.2 Global Nitrosyl Fluoride Gas Consumption Value by Region (2021-2032)
 - 4.1.3 Global Nitrosyl Fluoride Gas Average Price by Region (2021-2032)
- 4.2 North America Nitrosyl Fluoride Gas Consumption Value (2021-2032)
- 4.3 Europe Nitrosyl Fluoride Gas Consumption Value (2021-2032)
- 4.4 Asia-Pacific Nitrosyl Fluoride Gas Consumption Value (2021-2032)

4.5 South America Nitrosyl Fluoride Gas Consumption Value (2021-2032)

4.6 Middle East & Africa Nitrosyl Fluoride Gas Consumption Value (2021-2032)

5 MARKET SEGMENT BY PURITY

5.1 Global Nitrosyl Fluoride Gas Sales Quantity by Purity (2021-2032)

5.2 Global Nitrosyl Fluoride Gas Consumption Value by Purity (2021-2032)

5.3 Global Nitrosyl Fluoride Gas Average Price by Purity (2021-2032)

6 MARKET SEGMENT BY APPLICATION

6.1 Global Nitrosyl Fluoride Gas Sales Quantity by Application (2021-2032)

6.2 Global Nitrosyl Fluoride Gas Consumption Value by Application (2021-2032)

6.3 Global Nitrosyl Fluoride Gas Average Price by Application (2021-2032)

7 NORTH AMERICA

7.1 North America Nitrosyl Fluoride Gas Sales Quantity by Purity (2021-2032)

7.2 North America Nitrosyl Fluoride Gas Sales Quantity by Application (2021-2032)

7.3 North America Nitrosyl Fluoride Gas Market Size by Country

7.3.1 North America Nitrosyl Fluoride Gas Sales Quantity by Country (2021-2032)

7.3.2 North America Nitrosyl Fluoride Gas Consumption Value by Country (2021-2032)

7.3.3 United States Market Size and Forecast (2021-2032)

7.3.4 Canada Market Size and Forecast (2021-2032)

7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

8.1 Europe Nitrosyl Fluoride Gas Sales Quantity by Purity (2021-2032)

8.2 Europe Nitrosyl Fluoride Gas Sales Quantity by Application (2021-2032)

8.3 Europe Nitrosyl Fluoride Gas Market Size by Country

8.3.1 Europe Nitrosyl Fluoride Gas Sales Quantity by Country (2021-2032)

8.3.2 Europe Nitrosyl Fluoride Gas Consumption Value by Country (2021-2032)

8.3.3 Germany Market Size and Forecast (2021-2032)

8.3.4 France Market Size and Forecast (2021-2032)

8.3.5 United Kingdom Market Size and Forecast (2021-2032)

8.3.6 Russia Market Size and Forecast (2021-2032)

8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

- 9.1 Asia-Pacific Nitrosyl Fluoride Gas Sales Quantity by Purity (2021-2032)
- 9.2 Asia-Pacific Nitrosyl Fluoride Gas Sales Quantity by Application (2021-2032)
- 9.3 Asia-Pacific Nitrosyl Fluoride Gas Market Size by Region
 - 9.3.1 Asia-Pacific Nitrosyl Fluoride Gas Sales Quantity by Region (2021-2032)
 - 9.3.2 Asia-Pacific Nitrosyl Fluoride Gas Consumption Value by Region (2021-2032)
 - 9.3.3 China Market Size and Forecast (2021-2032)
 - 9.3.4 Japan Market Size and Forecast (2021-2032)
 - 9.3.5 South Korea Market Size and Forecast (2021-2032)
 - 9.3.6 India Market Size and Forecast (2021-2032)
 - 9.3.7 Southeast Asia Market Size and Forecast (2021-2032)
 - 9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

- 10.1 South America Nitrosyl Fluoride Gas Sales Quantity by Purity (2021-2032)
- 10.2 South America Nitrosyl Fluoride Gas Sales Quantity by Application (2021-2032)
- 10.3 South America Nitrosyl Fluoride Gas Market Size by Country
 - 10.3.1 South America Nitrosyl Fluoride Gas Sales Quantity by Country (2021-2032)
 - 10.3.2 South America Nitrosyl Fluoride Gas Consumption Value by Country (2021-2032)
 - 10.3.3 Brazil Market Size and Forecast (2021-2032)
 - 10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

- 11.1 Middle East & Africa Nitrosyl Fluoride Gas Sales Quantity by Purity (2021-2032)
- 11.2 Middle East & Africa Nitrosyl Fluoride Gas Sales Quantity by Application (2021-2032)
- 11.3 Middle East & Africa Nitrosyl Fluoride Gas Market Size by Country
 - 11.3.1 Middle East & Africa Nitrosyl Fluoride Gas Sales Quantity by Country (2021-2032)
 - 11.3.2 Middle East & Africa Nitrosyl Fluoride Gas Consumption Value by Country (2021-2032)
 - 11.3.3 Turkey Market Size and Forecast (2021-2032)
 - 11.3.4 Egypt Market Size and Forecast (2021-2032)
 - 11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)
 - 11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

- 12.1 Nitrosyl Fluoride Gas Market Drivers
- 12.2 Nitrosyl Fluoride Gas Market Restraints
- 12.3 Nitrosyl Fluoride Gas Trends Analysis
- 12.4 Porters Five Forces Analysis
 - 12.4.1 Threat of New Entrants
 - 12.4.2 Bargaining Power of Suppliers
 - 12.4.3 Bargaining Power of Buyers
 - 12.4.4 Threat of Substitutes
 - 12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

- 13.1 Raw Material of Nitrosyl Fluoride Gas and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of Nitrosyl Fluoride Gas
- 13.3 Nitrosyl Fluoride Gas Production Process
- 13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

- 14.1 Sales Channel
 - 14.1.1 Direct to End-User
 - 14.1.2 Distributors
- 14.2 Nitrosyl Fluoride Gas Typical Distributors
- 14.3 Nitrosyl Fluoride Gas Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

- 16.1 Methodology
- 16.2 Research Process and Data Source
- 16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Nitrosyl Fluoride Gas Consumption Value by Purity, (USD Million), 2021 & 2025 & 2032

Table 2. Global Nitrosyl Fluoride Gas Consumption Value by Grade, (USD Million), 2021 & 2025 & 2032

Table 3. Global Nitrosyl Fluoride Gas Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 4. Air Liquide Basic Information, Manufacturing Base and Competitors

Table 5. Air Liquide Major Business

Table 6. Air Liquide Nitrosyl Fluoride Gas Product and Services

Table 7. Air Liquide Nitrosyl Fluoride Gas Sales Quantity (Tons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 8. Air Liquide Recent Developments/Updates

Table 9. Resonac Basic Information, Manufacturing Base and Competitors

Table 10. Resonac Major Business

Table 11. Resonac Nitrosyl Fluoride Gas Product and Services

Table 12. Resonac Nitrosyl Fluoride Gas Sales Quantity (Tons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 13. Resonac Recent Developments/Updates

Table 14. Guangdong Huate Gas Basic Information, Manufacturing Base and Competitors

Table 15. Guangdong Huate Gas Major Business

Table 16. Guangdong Huate Gas Nitrosyl Fluoride Gas Product and Services

Table 17. Guangdong Huate Gas Nitrosyl Fluoride Gas Sales Quantity (Tons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 18. Guangdong Huate Gas Recent Developments/Updates

Table 19. Global Nitrosyl Fluoride Gas Sales Quantity by Manufacturer (2021-2026) & (Tons)

Table 20. Global Nitrosyl Fluoride Gas Revenue by Manufacturer (2021-2026) & (USD Million)

Table 21. Global Nitrosyl Fluoride Gas Average Price by Manufacturer (2021-2026) & (US\$/kg)

Table 22. Market Position of Manufacturers in Nitrosyl Fluoride Gas, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 23. Head Office and Nitrosyl Fluoride Gas Production Site of Key Manufacturer

Table 24. Nitrosyl Fluoride Gas Market: Company Product Type Footprint

Table 25. Nitrosyl Fluoride Gas Market: Company Product Application Footprint

Table 26. Nitrosyl Fluoride Gas New Market Entrants and Barriers to Market Entry

Table 27. Nitrosyl Fluoride Gas Mergers, Acquisition, Agreements, and Collaborations

Table 28. Global Nitrosyl Fluoride Gas Consumption Value by Region

(2021-2025-2032) & (USD Million) & CAGR

Table 29. Global Nitrosyl Fluoride Gas Sales Quantity by Region (2021-2026) & (Tons)

Table 30. Global Nitrosyl Fluoride Gas Sales Quantity by Region (2027-2032) & (Tons)

Table 31. Global Nitrosyl Fluoride Gas Consumption Value by Region (2021-2026) & (USD Million)

Table 32. Global Nitrosyl Fluoride Gas Consumption Value by Region (2027-2032) & (USD Million)

Table 33. Global Nitrosyl Fluoride Gas Average Price by Region (2021-2026) & (US\$/kg)

Table 34. Global Nitrosyl Fluoride Gas Average Price by Region (2027-2032) & (US\$/kg)

Table 35. Global Nitrosyl Fluoride Gas Sales Quantity by Purity (2021-2026) & (Tons)

Table 36. Global Nitrosyl Fluoride Gas Sales Quantity by Purity (2027-2032) & (Tons)

Table 37. Global Nitrosyl Fluoride Gas Consumption Value by Purity (2021-2026) & (USD Million)

Table 38. Global Nitrosyl Fluoride Gas Consumption Value by Purity (2027-2032) & (USD Million)

Table 39. Global Nitrosyl Fluoride Gas Average Price by Purity (2021-2026) & (US\$/kg)

Table 40. Global Nitrosyl Fluoride Gas Average Price by Purity (2027-2032) & (US\$/kg)

Table 41. Global Nitrosyl Fluoride Gas Sales Quantity by Application (2021-2026) & (Tons)

Table 42. Global Nitrosyl Fluoride Gas Sales Quantity by Application (2027-2032) & (Tons)

Table 43. Global Nitrosyl Fluoride Gas Consumption Value by Application (2021-2026) & (USD Million)

Table 44. Global Nitrosyl Fluoride Gas Consumption Value by Application (2027-2032) & (USD Million)

Table 45. Global Nitrosyl Fluoride Gas Average Price by Application (2021-2026) & (US\$/kg)

Table 46. Global Nitrosyl Fluoride Gas Average Price by Application (2027-2032) & (US\$/kg)

Table 47. North America Nitrosyl Fluoride Gas Sales Quantity by Purity (2021-2026) & (Tons)

Table 48. North America Nitrosyl Fluoride Gas Sales Quantity by Purity (2027-2032) & (Tons)

Table 49. North America Nitrosyl Fluoride Gas Sales Quantity by Application (2021-2026) & (Tons)

Table 50. North America Nitrosyl Fluoride Gas Sales Quantity by Application (2027-2032) & (Tons)

Table 51. North America Nitrosyl Fluoride Gas Sales Quantity by Country (2021-2026) & (Tons)

Table 52. North America Nitrosyl Fluoride Gas Sales Quantity by Country (2027-2032) & (Tons)

Table 53. North America Nitrosyl Fluoride Gas Consumption Value by Country (2021-2026) & (USD Million)

Table 54. North America Nitrosyl Fluoride Gas Consumption Value by Country (2027-2032) & (USD Million)

Table 55. Europe Nitrosyl Fluoride Gas Sales Quantity by Purity (2021-2026) & (Tons)

Table 56. Europe Nitrosyl Fluoride Gas Sales Quantity by Purity (2027-2032) & (Tons)

Table 57. Europe Nitrosyl Fluoride Gas Sales Quantity by Application (2021-2026) & (Tons)

Table 58. Europe Nitrosyl Fluoride Gas Sales Quantity by Application (2027-2032) & (Tons)

Table 59. Europe Nitrosyl Fluoride Gas Sales Quantity by Country (2021-2026) & (Tons)

Table 60. Europe Nitrosyl Fluoride Gas Sales Quantity by Country (2027-2032) & (Tons)

Table 61. Europe Nitrosyl Fluoride Gas Consumption Value by Country (2021-2026) & (USD Million)

Table 62. Europe Nitrosyl Fluoride Gas Consumption Value by Country (2027-2032) & (USD Million)

Table 63. Asia-Pacific Nitrosyl Fluoride Gas Sales Quantity by Purity (2021-2026) & (Tons)

Table 64. Asia-Pacific Nitrosyl Fluoride Gas Sales Quantity by Purity (2027-2032) & (Tons)

Table 65. Asia-Pacific Nitrosyl Fluoride Gas Sales Quantity by Application (2021-2026) & (Tons)

Table 66. Asia-Pacific Nitrosyl Fluoride Gas Sales Quantity by Application (2027-2032) & (Tons)

Table 67. Asia-Pacific Nitrosyl Fluoride Gas Sales Quantity by Region (2021-2026) & (Tons)

Table 68. Asia-Pacific Nitrosyl Fluoride Gas Sales Quantity by Region (2027-2032) & (Tons)

Table 69. Asia-Pacific Nitrosyl Fluoride Gas Consumption Value by Region (2021-2026)

& (USD Million)

Table 70. Asia-Pacific Nitrosyl Fluoride Gas Consumption Value by Region (2027-2032)

& (USD Million)

Table 71. South America Nitrosyl Fluoride Gas Sales Quantity by Purity (2021-2026) & (Tons)

Table 72. South America Nitrosyl Fluoride Gas Sales Quantity by Purity (2027-2032) & (Tons)

Table 73. South America Nitrosyl Fluoride Gas Sales Quantity by Application (2021-2026) & (Tons)

Table 74. South America Nitrosyl Fluoride Gas Sales Quantity by Application (2027-2032) & (Tons)

Table 75. South America Nitrosyl Fluoride Gas Sales Quantity by Country (2021-2026) & (Tons)

Table 76. South America Nitrosyl Fluoride Gas Sales Quantity by Country (2027-2032) & (Tons)

Table 77. South America Nitrosyl Fluoride Gas Consumption Value by Country (2021-2026) & (USD Million)

Table 78. South America Nitrosyl Fluoride Gas Consumption Value by Country (2027-2032) & (USD Million)

Table 79. Middle East & Africa Nitrosyl Fluoride Gas Sales Quantity by Purity (2021-2026) & (Tons)

Table 80. Middle East & Africa Nitrosyl Fluoride Gas Sales Quantity by Purity (2027-2032) & (Tons)

Table 81. Middle East & Africa Nitrosyl Fluoride Gas Sales Quantity by Application (2021-2026) & (Tons)

Table 82. Middle East & Africa Nitrosyl Fluoride Gas Sales Quantity by Application (2027-2032) & (Tons)

Table 83. Middle East & Africa Nitrosyl Fluoride Gas Sales Quantity by Country (2021-2026) & (Tons)

Table 84. Middle East & Africa Nitrosyl Fluoride Gas Sales Quantity by Country (2027-2032) & (Tons)

Table 85. Middle East & Africa Nitrosyl Fluoride Gas Consumption Value by Country (2021-2026) & (USD Million)

Table 86. Middle East & Africa Nitrosyl Fluoride Gas Consumption Value by Country (2027-2032) & (USD Million)

Table 87. Nitrosyl Fluoride Gas Raw Material

Table 88. Key Manufacturers of Nitrosyl Fluoride Gas Raw Materials

Table 89. Nitrosyl Fluoride Gas Typical Distributors

Table 90. Nitrosyl Fluoride Gas Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Nitrosyl Fluoride Gas Picture

Figure 2. Global Nitrosyl Fluoride Gas Revenue by Purity, (USD Million), 2021 & 2025 & 2032

Figure 3. Global Nitrosyl Fluoride Gas Revenue Market Share by Purity in 2025

Figure 4. 999% Examples

Figure 5. 999.9% Examples

Figure 6. Global Nitrosyl Fluoride Gas Revenue by Grade, (USD Million), 2021 & 2025 & 2032

Figure 7. Global Nitrosyl Fluoride Gas Revenue Market Share by Grade in 2025

Figure 8. Industrial Grade Examples

Figure 9. Electronic Grade Examples

Figure 10. Global Nitrosyl Fluoride Gas Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 11. Global Nitrosyl Fluoride Gas Revenue Market Share by Application in 2025

Figure 12. Semiconductor Etch Examples

Figure 13. Fluoroaromatic Synthesis Examples

Figure 14. Others Examples

Figure 15. Global Nitrosyl Fluoride Gas Consumption Value, (USD Million): 2021 & 2025 & 2032

Figure 16. Global Nitrosyl Fluoride Gas Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 17. Global Nitrosyl Fluoride Gas Sales Quantity (2021-2032) & (Tons)

Figure 18. Global Nitrosyl Fluoride Gas Price (2021-2032) & (US\$/kg)

Figure 19. Global Nitrosyl Fluoride Gas Sales Quantity Market Share by Manufacturer in 2025

Figure 20. Global Nitrosyl Fluoride Gas Revenue Market Share by Manufacturer in 2025

Figure 21. Producer Shipments of Nitrosyl Fluoride Gas by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 22. Top 3 Nitrosyl Fluoride Gas Manufacturer (Revenue) Market Share in 2025

Figure 23. Top 6 Nitrosyl Fluoride Gas Manufacturer (Revenue) Market Share in 2025

Figure 24. Global Nitrosyl Fluoride Gas Sales Quantity Market Share by Region (2021-2032)

Figure 25. Global Nitrosyl Fluoride Gas Consumption Value Market Share by Region (2021-2032)

Figure 26. North America Nitrosyl Fluoride Gas Consumption Value (2021-2032) &

(USD Million)

Figure 27. Europe Nitrosyl Fluoride Gas Consumption Value (2021-2032) & (USD Million)

Figure 28. Asia-Pacific Nitrosyl Fluoride Gas Consumption Value (2021-2032) & (USD Million)

Figure 29. South America Nitrosyl Fluoride Gas Consumption Value (2021-2032) & (USD Million)

Figure 30. Middle East & Africa Nitrosyl Fluoride Gas Consumption Value (2021-2032) & (USD Million)

Figure 31. Global Nitrosyl Fluoride Gas Sales Quantity Market Share by Purity (2021-2032)

Figure 32. Global Nitrosyl Fluoride Gas Consumption Value Market Share by Purity (2021-2032)

Figure 33. Global Nitrosyl Fluoride Gas Average Price by Purity (2021-2032) & (US\$/kg)

Figure 34. Global Nitrosyl Fluoride Gas Sales Quantity Market Share by Application (2021-2032)

Figure 35. Global Nitrosyl Fluoride Gas Revenue Market Share by Application (2021-2032)

Figure 36. Global Nitrosyl Fluoride Gas Average Price by Application (2021-2032) & (US\$/kg)

Figure 37. North America Nitrosyl Fluoride Gas Sales Quantity Market Share by Purity (2021-2032)

Figure 38. North America Nitrosyl Fluoride Gas Sales Quantity Market Share by Application (2021-2032)

Figure 39. North America Nitrosyl Fluoride Gas Sales Quantity Market Share by Country (2021-2032)

Figure 40. North America Nitrosyl Fluoride Gas Consumption Value Market Share by Country (2021-2032)

Figure 41. United States Nitrosyl Fluoride Gas Consumption Value (2021-2032) & (USD Million)

Figure 42. Canada Nitrosyl Fluoride Gas Consumption Value (2021-2032) & (USD Million)

Figure 43. Mexico Nitrosyl Fluoride Gas Consumption Value (2021-2032) & (USD Million)

Figure 44. Europe Nitrosyl Fluoride Gas Sales Quantity Market Share by Purity (2021-2032)

Figure 45. Europe Nitrosyl Fluoride Gas Sales Quantity Market Share by Application (2021-2032)

Figure 46. Europe Nitrosyl Fluoride Gas Sales Quantity Market Share by Country

(2021-2032)

Figure 47. Europe Nitrosyl Fluoride Gas Consumption Value Market Share by Country (2021-2032)

Figure 48. Germany Nitrosyl Fluoride Gas Consumption Value (2021-2032) & (USD Million)

Figure 49. France Nitrosyl Fluoride Gas Consumption Value (2021-2032) & (USD Million)

Figure 50. United Kingdom Nitrosyl Fluoride Gas Consumption Value (2021-2032) & (USD Million)

Figure 51. Russia Nitrosyl Fluoride Gas Consumption Value (2021-2032) & (USD Million)

Figure 52. Italy Nitrosyl Fluoride Gas Consumption Value (2021-2032) & (USD Million)

Figure 53. Asia-Pacific Nitrosyl Fluoride Gas Sales Quantity Market Share by Purity (2021-2032)

Figure 54. Asia-Pacific Nitrosyl Fluoride Gas Sales Quantity Market Share by Application (2021-2032)

Figure 55. Asia-Pacific Nitrosyl Fluoride Gas Sales Quantity Market Share by Region (2021-2032)

Figure 56. Asia-Pacific Nitrosyl Fluoride Gas Consumption Value Market Share by Region (2021-2032)

Figure 57. China Nitrosyl Fluoride Gas Consumption Value (2021-2032) & (USD Million)

Figure 58. Japan Nitrosyl Fluoride Gas Consumption Value (2021-2032) & (USD Million)

Figure 59. South Korea Nitrosyl Fluoride Gas Consumption Value (2021-2032) & (USD Million)

Figure 60. India Nitrosyl Fluoride Gas Consumption Value (2021-2032) & (USD Million)

Figure 61. Southeast Asia Nitrosyl Fluoride Gas Consumption Value (2021-2032) & (USD Million)

Figure 62. Australia Nitrosyl Fluoride Gas Consumption Value (2021-2032) & (USD Million)

Figure 63. South America Nitrosyl Fluoride Gas Sales Quantity Market Share by Purity (2021-2032)

Figure 64. South America Nitrosyl Fluoride Gas Sales Quantity Market Share by Application (2021-2032)

Figure 65. South America Nitrosyl Fluoride Gas Sales Quantity Market Share by Country (2021-2032)

Figure 66. South America Nitrosyl Fluoride Gas Consumption Value Market Share by Country (2021-2032)

Figure 67. Brazil Nitrosyl Fluoride Gas Consumption Value (2021-2032) & (USD Million)

Figure 68. Argentina Nitrosyl Fluoride Gas Consumption Value (2021-2032) & (USD

Million)

Figure 69. Middle East & Africa Nitrosyl Fluoride Gas Sales Quantity Market Share by Purity (2021-2032)

Figure 70. Middle East & Africa Nitrosyl Fluoride Gas Sales Quantity Market Share by Application (2021-2032)

Figure 71. Middle East & Africa Nitrosyl Fluoride Gas Sales Quantity Market Share by Country (2021-2032)

Figure 72. Middle East & Africa Nitrosyl Fluoride Gas Consumption Value Market Share by Country (2021-2032)

Figure 73. Turkey Nitrosyl Fluoride Gas Consumption Value (2021-2032) & (USD Million)

Figure 74. Egypt Nitrosyl Fluoride Gas Consumption Value (2021-2032) & (USD Million)

Figure 75. Saudi Arabia Nitrosyl Fluoride Gas Consumption Value (2021-2032) & (USD Million)

Figure 76. South Africa Nitrosyl Fluoride Gas Consumption Value (2021-2032) & (USD Million)

Figure 77. Nitrosyl Fluoride Gas Market Drivers

Figure 78. Nitrosyl Fluoride Gas Market Restraints

Figure 79. Nitrosyl Fluoride Gas Market Trends

Figure 80. Porters Five Forces Analysis

Figure 81. Manufacturing Cost Structure Analysis of Nitrosyl Fluoride Gas in 2025

Figure 82. Manufacturing Process Analysis of Nitrosyl Fluoride Gas

Figure 83. Nitrosyl Fluoride Gas Industrial Chain

Figure 84. Sales Channel: Direct to End-User vs Distributors

Figure 85. Direct Channel Pros & Cons

Figure 86. Indirect Channel Pros & Cons

Figure 87. Methodology

Figure 88. Research Process and Data Source

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