

Global Third-generation Fluorinated Refrigerant Market Growth 2025-2031

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Abstracts

The global Third-generation Fluorinated Refrigerant market size is predicted to grow from US\$ 9704 million in 2025 to US\$ 89500 million in 2031; it is expected to grow at a CAGR of 44.8% from 2025 to 2031.

Refrigerant is the medium used to complete energy conversion in various heat engines, mainly fluorinated refrigerant. It can be divided into ammonia, nitrogen, fluorine-containing, water and hydrocarbons, among which fluorine refrigerants with excellent thermodynamic performance are the most common. The third generation of hydrofluorocarbon (HFCs) refrigerants are represented by HFC-32 (R32), HFC-134a (R134A), HFC-125 (R125) and HFC-410a (R410a). Their ODP is zero, which does not damage the ozone layer, but the GWP value is high, and the greenhouse effect is significant. Third-generation refrigerants are widely used abroad. At present, they are in the early stage of elimination in some developed countries. Some developing countries, including China, have entered the quota reference period (2020 - 2022). During this period, the production and sales of third-generation refrigerants will become the main reference index for future manufacturers to obtain quotas. The replacement process of refrigerants is slow. It takes 8-10 years from the beginning of using a refrigerant to the end of the refrigeration equipment. There is still a large demand for the third generation of fluorinated refrigerants.

After calculation, due to the growth of servers and other applications, as well as the reduction of second-generation refrigerants caused by quota agreements, it is expected that in the next 5 years (2023-2029), the CAGR of the third-generation fluorinated refrigerants will be 43.2%, and the market size will be \$44348 million in 2029. However, the market will face a decline after 2029.

LP Information, Inc. (LPI) ' newest research report, the “Third-generation Fluorinated Refrigerant Industry Forecast” looks at past sales and reviews total world Third-generation Fluorinated Refrigerant sales in 2024, providing a comprehensive analysis by region and market sector of projected Third-generation Fluorinated Refrigerant sales for 2025 through 2031. With Third-generation Fluorinated Refrigerant sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Third-generation Fluorinated Refrigerant industry.

This Insight Report provides a comprehensive analysis of the global Third-generation Fluorinated Refrigerant 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 Third-generation Fluorinated Refrigerant portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Third-generation Fluorinated Refrigerant market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Third-generation Fluorinated Refrigerant 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 Third-generation Fluorinated Refrigerant.

This report presents a comprehensive overview, market shares, and growth opportunities of Third-generation Fluorinated Refrigerant market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

R125 Refrigerant

R134a Refrigerant

R32 Refrigerant

Other

Segmentation by Application:

Air Conditioner and Refrigerator

Automotive

Foaming Agent and Aerosol

Other

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.

Chemours

Arkema

Daikin

Orbia Advance Corporation

Honeywell

Linde

Shandong Dongyue Organosilicon Materials Co.,Ltd.

Zhejiang Juhua Co.,Ltd.

Jiangsu Meilan Co.,Ltd.

Zhonghao Chenguang Co.,Ltd.

Zhejiang Sanmei Co.,Ltd.

Zhejiang Yonghe Refrigerant Co.,Ltd.

Key Questions Addressed in this Report

What is the 10-year outlook for the global Third-generation Fluorinated Refrigerant market?

What factors are driving Third-generation Fluorinated Refrigerant market growth, globally and by region?

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

How do Third-generation Fluorinated Refrigerant market opportunities vary by end market size?

How does Third-generation Fluorinated Refrigerant 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 Third-generation Fluorinated Refrigerant Annual Sales 2020-2031
- 2.1.2 World Current & Future Analysis for Third-generation Fluorinated Refrigerant by Geographic Region, 2020, 2024 & 2031
- 2.1.3 World Current & Future Analysis for Third-generation Fluorinated Refrigerant by Country/Region, 2020, 2024 & 2031

2.2 Third-generation Fluorinated Refrigerant Segment by Type

- 2.2.1 R125 Refrigerant
- 2.2.2 R134a Refrigerant
- 2.2.3 R32 Refrigerant
- 2.2.4 Other

2.3 Third-generation Fluorinated Refrigerant Sales by Type

- 2.3.1 Global Third-generation Fluorinated Refrigerant Sales Market Share by Type (2020-2025)
- 2.3.2 Global Third-generation Fluorinated Refrigerant Revenue and Market Share by Type (2020-2025)
- 2.3.3 Global Third-generation Fluorinated Refrigerant Sale Price by Type (2020-2025)

2.4 Third-generation Fluorinated Refrigerant Segment by Application

- 2.4.1 Air Conditioner and Refrigerator
- 2.4.2 Automotive
- 2.4.3 Foaming Agent and Aerosol
- 2.4.4 Other

2.5 Third-generation Fluorinated Refrigerant Sales by Application

- 2.5.1 Global Third-generation Fluorinated Refrigerant Sale Market Share by

Application (2020-2025)

2.5.2 Global Third-generation Fluorinated Refrigerant Revenue and Market Share by Application (2020-2025)

2.5.3 Global Third-generation Fluorinated Refrigerant Sale Price by Application (2020-2025)

3 GLOBAL BY COMPANY

3.1 Global Third-generation Fluorinated Refrigerant Breakdown Data by Company

3.1.1 Global Third-generation Fluorinated Refrigerant Annual Sales by Company (2020-2025)

3.1.2 Global Third-generation Fluorinated Refrigerant Sales Market Share by Company (2020-2025)

3.2 Global Third-generation Fluorinated Refrigerant Annual Revenue by Company (2020-2025)

3.2.1 Global Third-generation Fluorinated Refrigerant Revenue by Company (2020-2025)

3.2.2 Global Third-generation Fluorinated Refrigerant Revenue Market Share by Company (2020-2025)

3.3 Global Third-generation Fluorinated Refrigerant Sale Price by Company

3.4 Key Manufacturers Third-generation Fluorinated Refrigerant Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Third-generation Fluorinated Refrigerant Product Location Distribution

3.4.2 Players Third-generation Fluorinated Refrigerant Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR THIRD-GENERATION FLUORINATED REFRIGERANT BY GEOGRAPHIC REGION

4.1 World Historic Third-generation Fluorinated Refrigerant Market Size by Geographic Region (2020-2025)

4.1.1 Global Third-generation Fluorinated Refrigerant Annual Sales by Geographic Region (2020-2025)

4.1.2 Global Third-generation Fluorinated Refrigerant Annual Revenue by Geographic

Region (2020-2025)

4.2 World Historic Third-generation Fluorinated Refrigerant Market Size by Country/Region (2020-2025)

4.2.1 Global Third-generation Fluorinated Refrigerant Annual Sales by Country/Region (2020-2025)

4.2.2 Global Third-generation Fluorinated Refrigerant Annual Revenue by Country/Region (2020-2025)

4.3 Americas Third-generation Fluorinated Refrigerant Sales Growth

4.4 APAC Third-generation Fluorinated Refrigerant Sales Growth

4.5 Europe Third-generation Fluorinated Refrigerant Sales Growth

4.6 Middle East & Africa Third-generation Fluorinated Refrigerant Sales Growth

5 AMERICAS

5.1 Americas Third-generation Fluorinated Refrigerant Sales by Country

5.1.1 Americas Third-generation Fluorinated Refrigerant Sales by Country (2020-2025)

5.1.2 Americas Third-generation Fluorinated Refrigerant Revenue by Country (2020-2025)

5.2 Americas Third-generation Fluorinated Refrigerant Sales by Type (2020-2025)

5.3 Americas Third-generation Fluorinated Refrigerant Sales by Application (2020-2025)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Third-generation Fluorinated Refrigerant Sales by Region

6.1.1 APAC Third-generation Fluorinated Refrigerant Sales by Region (2020-2025)

6.1.2 APAC Third-generation Fluorinated Refrigerant Revenue by Region (2020-2025)

6.2 APAC Third-generation Fluorinated Refrigerant Sales by Type (2020-2025)

6.3 APAC Third-generation Fluorinated Refrigerant Sales by Application (2020-2025)

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 Third-generation Fluorinated Refrigerant by Country

7.1.1 Europe Third-generation Fluorinated Refrigerant Sales by Country (2020-2025)

7.1.2 Europe Third-generation Fluorinated Refrigerant Revenue by Country (2020-2025)

7.2 Europe Third-generation Fluorinated Refrigerant Sales by Type (2020-2025)

7.3 Europe Third-generation Fluorinated Refrigerant Sales by Application (2020-2025)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Third-generation Fluorinated Refrigerant by Country

8.1.1 Middle East & Africa Third-generation Fluorinated Refrigerant Sales by Country (2020-2025)

8.1.2 Middle East & Africa Third-generation Fluorinated Refrigerant Revenue by Country (2020-2025)

8.2 Middle East & Africa Third-generation Fluorinated Refrigerant Sales by Type (2020-2025)

8.3 Middle East & Africa Third-generation Fluorinated Refrigerant Sales by Application (2020-2025)

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 Third-generation Fluorinated Refrigerant
- 10.3 Manufacturing Process Analysis of Third-generation Fluorinated Refrigerant
- 10.4 Industry Chain Structure of Third-generation Fluorinated Refrigerant

11 MARKETING, DISTRIBUTORS AND CUSTOMER

- 11.1 Sales Channel
 - 11.1.1 Direct Channels
 - 11.1.2 Indirect Channels
- 11.2 Third-generation Fluorinated Refrigerant Distributors
- 11.3 Third-generation Fluorinated Refrigerant Customer

12 WORLD FORECAST REVIEW FOR THIRD-GENERATION FLUORINATED REFRIGERANT BY GEOGRAPHIC REGION

- 12.1 Global Third-generation Fluorinated Refrigerant Market Size Forecast by Region
 - 12.1.1 Global Third-generation Fluorinated Refrigerant Forecast by Region (2026-2031)
 - 12.1.2 Global Third-generation Fluorinated Refrigerant Annual Revenue Forecast by Region (2026-2031)
- 12.2 Americas Forecast by Country (2026-2031)
- 12.3 APAC Forecast by Region (2026-2031)
- 12.4 Europe Forecast by Country (2026-2031)
- 12.5 Middle East & Africa Forecast by Country (2026-2031)
- 12.6 Global Third-generation Fluorinated Refrigerant Forecast by Type (2026-2031)
- 12.7 Global Third-generation Fluorinated Refrigerant Forecast by Application (2026-2031)

13 KEY PLAYERS ANALYSIS

- 13.1 Chemours
 - 13.1.1 Chemours Company Information
 - 13.1.2 Chemours Third-generation Fluorinated Refrigerant Product Portfolios and Specifications
 - 13.1.3 Chemours Third-generation Fluorinated Refrigerant Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.1.4 Chemours Main Business Overview

- 13.1.5 Chemours Latest Developments
- 13.2 Arkema
 - 13.2.1 Arkema Company Information
 - 13.2.2 Arkema Third-generation Fluorinated Refrigerant Product Portfolios and Specifications
 - 13.2.3 Arkema Third-generation Fluorinated Refrigerant Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.2.4 Arkema Main Business Overview
 - 13.2.5 Arkema Latest Developments
- 13.3 Daikin
 - 13.3.1 Daikin Company Information
 - 13.3.2 Daikin Third-generation Fluorinated Refrigerant Product Portfolios and Specifications
 - 13.3.3 Daikin Third-generation Fluorinated Refrigerant Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.3.4 Daikin Main Business Overview
 - 13.3.5 Daikin Latest Developments
- 13.4 Orbia Advance Corporation
 - 13.4.1 Orbia Advance Corporation Company Information
 - 13.4.2 Orbia Advance Corporation Third-generation Fluorinated Refrigerant Product Portfolios and Specifications
 - 13.4.3 Orbia Advance Corporation Third-generation Fluorinated Refrigerant Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.4.4 Orbia Advance Corporation Main Business Overview
 - 13.4.5 Orbia Advance Corporation Latest Developments
- 13.5 Honeywell
 - 13.5.1 Honeywell Company Information
 - 13.5.2 Honeywell Third-generation Fluorinated Refrigerant Product Portfolios and Specifications
 - 13.5.3 Honeywell Third-generation Fluorinated Refrigerant Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.5.4 Honeywell Main Business Overview
 - 13.5.5 Honeywell Latest Developments
- 13.6 Linde
 - 13.6.1 Linde Company Information
 - 13.6.2 Linde Third-generation Fluorinated Refrigerant Product Portfolios and Specifications
 - 13.6.3 Linde Third-generation Fluorinated Refrigerant Sales, Revenue, Price and Gross Margin (2020-2025)

- 13.6.4 Linde Main Business Overview
- 13.6.5 Linde Latest Developments
- 13.7 Shandong Dongyue Organosilicon Materials Co.,Ltd.
 - 13.7.1 Shandong Dongyue Organosilicon Materials Co.,Ltd. Company Information
 - 13.7.2 Shandong Dongyue Organosilicon Materials Co.,Ltd. Third-generation Fluorinated Refrigerant Product Portfolios and Specifications
 - 13.7.3 Shandong Dongyue Organosilicon Materials Co.,Ltd. Third-generation Fluorinated Refrigerant Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.7.4 Shandong Dongyue Organosilicon Materials Co.,Ltd. Main Business Overview
 - 13.7.5 Shandong Dongyue Organosilicon Materials Co.,Ltd. Latest Developments
- 13.8 Zhejiang Juhua Co.,Ltd.
 - 13.8.1 Zhejiang Juhua Co.,Ltd. Company Information
 - 13.8.2 Zhejiang Juhua Co.,Ltd. Third-generation Fluorinated Refrigerant Product Portfolios and Specifications
 - 13.8.3 Zhejiang Juhua Co.,Ltd. Third-generation Fluorinated Refrigerant Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.8.4 Zhejiang Juhua Co.,Ltd. Main Business Overview
 - 13.8.5 Zhejiang Juhua Co.,Ltd. Latest Developments
- 13.9 Jiangsu Meilan Co.,Ltd.
 - 13.9.1 Jiangsu Meilan Co.,Ltd. Company Information
 - 13.9.2 Jiangsu Meilan Co.,Ltd. Third-generation Fluorinated Refrigerant Product Portfolios and Specifications
 - 13.9.3 Jiangsu Meilan Co.,Ltd. Third-generation Fluorinated Refrigerant Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.9.4 Jiangsu Meilan Co.,Ltd. Main Business Overview
 - 13.9.5 Jiangsu Meilan Co.,Ltd. Latest Developments
- 13.10 Zhonghao Chenguang Co.,Ltd.
 - 13.10.1 Zhonghao Chenguang Co.,Ltd. Company Information
 - 13.10.2 Zhonghao Chenguang Co.,Ltd. Third-generation Fluorinated Refrigerant Product Portfolios and Specifications
 - 13.10.3 Zhonghao Chenguang Co.,Ltd. Third-generation Fluorinated Refrigerant Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.10.4 Zhonghao Chenguang Co.,Ltd. Main Business Overview
 - 13.10.5 Zhonghao Chenguang Co.,Ltd. Latest Developments
- 13.11 Zhejiang Sanmei Co.,Ltd.
 - 13.11.1 Zhejiang Sanmei Co.,Ltd. Company Information
 - 13.11.2 Zhejiang Sanmei Co.,Ltd. Third-generation Fluorinated Refrigerant Product Portfolios and Specifications
 - 13.11.3 Zhejiang Sanmei Co.,Ltd. Third-generation Fluorinated Refrigerant Sales,

Revenue, Price and Gross Margin (2020-2025)

13.11.4 Zhejiang Sanmei Co.,Ltd. Main Business Overview

13.11.5 Zhejiang Sanmei Co.,Ltd. Latest Developments

13.12 Zhejiang Yonghe Refrigerant Co.,Ltd.

13.12.1 Zhejiang Yonghe Refrigerant Co.,Ltd. Company Information

13.12.2 Zhejiang Yonghe Refrigerant Co.,Ltd. Third-generation Fluorinated Refrigerant Product Portfolios and Specifications

13.12.3 Zhejiang Yonghe Refrigerant Co.,Ltd. Third-generation Fluorinated Refrigerant Sales, Revenue, Price and Gross Margin (2020-2025)

13.12.4 Zhejiang Yonghe Refrigerant Co.,Ltd. Main Business Overview

13.12.5 Zhejiang Yonghe Refrigerant Co.,Ltd. Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

- Table 1. Third-generation Fluorinated Refrigerant Annual Sales CAGR by Geographic Region (2020, 2024 & 2031) & (\$ millions)
- Table 2. Third-generation Fluorinated Refrigerant Annual Sales CAGR by Country/Region (2020, 2024 & 2031) & (\$ millions)
- Table 3. Major Players of R125 Refrigerant
- Table 4. Major Players of R134a Refrigerant
- Table 5. Major Players of R32 Refrigerant
- Table 6. Major Players of Other
- Table 7. Global Third-generation Fluorinated Refrigerant Sales by Type (2020-2025) & (Tons)
- Table 8. Global Third-generation Fluorinated Refrigerant Sales Market Share by Type (2020-2025)
- Table 9. Global Third-generation Fluorinated Refrigerant Revenue by Type (2020-2025) & (\$ million)
- Table 10. Global Third-generation Fluorinated Refrigerant Revenue Market Share by Type (2020-2025)
- Table 11. Global Third-generation Fluorinated Refrigerant Sale Price by Type (2020-2025) & (US\$/Ton)
- Table 12. Global Third-generation Fluorinated Refrigerant Sale by Application (2020-2025) & (Tons)
- Table 13. Global Third-generation Fluorinated Refrigerant Sale Market Share by Application (2020-2025)
- Table 14. Global Third-generation Fluorinated Refrigerant Revenue by Application (2020-2025) & (\$ million)
- Table 15. Global Third-generation Fluorinated Refrigerant Revenue Market Share by Application (2020-2025)
- Table 16. Global Third-generation Fluorinated Refrigerant Sale Price by Application (2020-2025) & (US\$/Ton)
- Table 17. Global Third-generation Fluorinated Refrigerant Sales by Company (2020-2025) & (Tons)
- Table 18. Global Third-generation Fluorinated Refrigerant Sales Market Share by Company (2020-2025)
- Table 19. Global Third-generation Fluorinated Refrigerant Revenue by Company (2020-2025) & (\$ millions)
- Table 20. Global Third-generation Fluorinated Refrigerant Revenue Market Share by

Company (2020-2025)

Table 21. Global Third-generation Fluorinated Refrigerant Sale Price by Company (2020-2025) & (US\$/Ton)

Table 22. Key Manufacturers Third-generation Fluorinated Refrigerant Producing Area Distribution and Sales Area

Table 23. Players Third-generation Fluorinated Refrigerant Products Offered

Table 24. Third-generation Fluorinated Refrigerant Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)

Table 25. New Products and Potential Entrants

Table 26. Market M&A Activity & Strategy

Table 27. Global Third-generation Fluorinated Refrigerant Sales by Geographic Region (2020-2025) & (Tons)

Table 28. Global Third-generation Fluorinated Refrigerant Sales Market Share Geographic Region (2020-2025)

Table 29. Global Third-generation Fluorinated Refrigerant Revenue by Geographic Region (2020-2025) & (\$ millions)

Table 30. Global Third-generation Fluorinated Refrigerant Revenue Market Share by Geographic Region (2020-2025)

Table 31. Global Third-generation Fluorinated Refrigerant Sales by Country/Region (2020-2025) & (Tons)

Table 32. Global Third-generation Fluorinated Refrigerant Sales Market Share by Country/Region (2020-2025)

Table 33. Global Third-generation Fluorinated Refrigerant Revenue by Country/Region (2020-2025) & (\$ millions)

Table 34. Global Third-generation Fluorinated Refrigerant Revenue Market Share by Country/Region (2020-2025)

Table 35. Americas Third-generation Fluorinated Refrigerant Sales by Country (2020-2025) & (Tons)

Table 36. Americas Third-generation Fluorinated Refrigerant Sales Market Share by Country (2020-2025)

Table 37. Americas Third-generation Fluorinated Refrigerant Revenue by Country (2020-2025) & (\$ millions)

Table 38. Americas Third-generation Fluorinated Refrigerant Sales by Type (2020-2025) & (Tons)

Table 39. Americas Third-generation Fluorinated Refrigerant Sales by Application (2020-2025) & (Tons)

Table 40. APAC Third-generation Fluorinated Refrigerant Sales by Region (2020-2025) & (Tons)

Table 41. APAC Third-generation Fluorinated Refrigerant Sales Market Share by

Region (2020-2025)

Table 42. APAC Third-generation Fluorinated Refrigerant Revenue by Region (2020-2025) & (\$ millions)

Table 43. APAC Third-generation Fluorinated Refrigerant Sales by Type (2020-2025) & (Tons)

Table 44. APAC Third-generation Fluorinated Refrigerant Sales by Application (2020-2025) & (Tons)

Table 45. Europe Third-generation Fluorinated Refrigerant Sales by Country (2020-2025) & (Tons)

Table 46. Europe Third-generation Fluorinated Refrigerant Revenue by Country (2020-2025) & (\$ millions)

Table 47. Europe Third-generation Fluorinated Refrigerant Sales by Type (2020-2025) & (Tons)

Table 48. Europe Third-generation Fluorinated Refrigerant Sales by Application (2020-2025) & (Tons)

Table 49. Middle East & Africa Third-generation Fluorinated Refrigerant Sales by Country (2020-2025) & (Tons)

Table 50. Middle East & Africa Third-generation Fluorinated Refrigerant Revenue Market Share by Country (2020-2025)

Table 51. Middle East & Africa Third-generation Fluorinated Refrigerant Sales by Type (2020-2025) & (Tons)

Table 52. Middle East & Africa Third-generation Fluorinated Refrigerant Sales by Application (2020-2025) & (Tons)

Table 53. Key Market Drivers & Growth Opportunities of Third-generation Fluorinated Refrigerant

Table 54. Key Market Challenges & Risks of Third-generation Fluorinated Refrigerant

Table 55. Key Industry Trends of Third-generation Fluorinated Refrigerant

Table 56. Third-generation Fluorinated Refrigerant Raw Material

Table 57. Key Suppliers of Raw Materials

Table 58. Third-generation Fluorinated Refrigerant Distributors List

Table 59. Third-generation Fluorinated Refrigerant Customer List

Table 60. Global Third-generation Fluorinated Refrigerant Sales Forecast by Region (2026-2031) & (Tons)

Table 61. Global Third-generation Fluorinated Refrigerant Revenue Forecast by Region (2026-2031) & (\$ millions)

Table 62. Americas Third-generation Fluorinated Refrigerant Sales Forecast by Country (2026-2031) & (Tons)

Table 63. Americas Third-generation Fluorinated Refrigerant Annual Revenue Forecast by Country (2026-2031) & (\$ millions)

Table 64. APAC Third-generation Fluorinated Refrigerant Sales Forecast by Region (2026-2031) & (Tons)

Table 65. APAC Third-generation Fluorinated Refrigerant Annual Revenue Forecast by Region (2026-2031) & (\$ millions)

Table 66. Europe Third-generation Fluorinated Refrigerant Sales Forecast by Country (2026-2031) & (Tons)

Table 67. Europe Third-generation Fluorinated Refrigerant Revenue Forecast by Country (2026-2031) & (\$ millions)

Table 68. Middle East & Africa Third-generation Fluorinated Refrigerant Sales Forecast by Country (2026-2031) & (Tons)

Table 69. Middle East & Africa Third-generation Fluorinated Refrigerant Revenue Forecast by Country (2026-2031) & (\$ millions)

Table 70. Global Third-generation Fluorinated Refrigerant Sales Forecast by Type (2026-2031) & (Tons)

Table 71. Global Third-generation Fluorinated Refrigerant Revenue Forecast by Type (2026-2031) & (\$ millions)

Table 72. Global Third-generation Fluorinated Refrigerant Sales Forecast by Application (2026-2031) & (Tons)

Table 73. Global Third-generation Fluorinated Refrigerant Revenue Forecast by Application (2026-2031) & (\$ millions)

Table 74. Chemours Basic Information, Third-generation Fluorinated Refrigerant Manufacturing Base, Sales Area and Its Competitors

Table 75. Chemours Third-generation Fluorinated Refrigerant Product Portfolios and Specifications

Table 76. Chemours Third-generation Fluorinated Refrigerant Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2020-2025)

Table 77. Chemours Main Business

Table 78. Chemours Latest Developments

Table 79. Arkema Basic Information, Third-generation Fluorinated Refrigerant Manufacturing Base, Sales Area and Its Competitors

Table 80. Arkema Third-generation Fluorinated Refrigerant Product Portfolios and Specifications

Table 81. Arkema Third-generation Fluorinated Refrigerant Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2020-2025)

Table 82. Arkema Main Business

Table 83. Arkema Latest Developments

Table 84. Daikin Basic Information, Third-generation Fluorinated Refrigerant Manufacturing Base, Sales Area and Its Competitors

Table 85. Daikin Third-generation Fluorinated Refrigerant Product Portfolios and

Specifications

Table 86. Daikin Third-generation Fluorinated Refrigerant Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2020-2025)

Table 87. Daikin Main Business

Table 88. Daikin Latest Developments

Table 89. Orbia Advance Corporation Basic Information, Third-generation Fluorinated Refrigerant Manufacturing Base, Sales Area and Its Competitors

Table 90. Orbia Advance Corporation Third-generation Fluorinated Refrigerant Product Portfolios and Specifications

Table 91. Orbia Advance Corporation Third-generation Fluorinated Refrigerant Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2020-2025)

Table 92. Orbia Advance Corporation Main Business

Table 93. Orbia Advance Corporation Latest Developments

Table 94. Honeywell Basic Information, Third-generation Fluorinated Refrigerant Manufacturing Base, Sales Area and Its Competitors

Table 95. Honeywell Third-generation Fluorinated Refrigerant Product Portfolios and Specifications

Table 96. Honeywell Third-generation Fluorinated Refrigerant Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2020-2025)

Table 97. Honeywell Main Business

Table 98. Honeywell Latest Developments

Table 99. Linde Basic Information, Third-generation Fluorinated Refrigerant Manufacturing Base, Sales Area and Its Competitors

Table 100. Linde Third-generation Fluorinated Refrigerant Product Portfolios and Specifications

Table 101. Linde Third-generation Fluorinated Refrigerant Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2020-2025)

Table 102. Linde Main Business

Table 103. Linde Latest Developments

Table 104. Shandong Dongyue Organosilicon Materials Co.,Ltd. Basic Information, Third-generation Fluorinated Refrigerant Manufacturing Base, Sales Area and Its Competitors

Table 105. Shandong Dongyue Organosilicon Materials Co.,Ltd. Third-generation Fluorinated Refrigerant Product Portfolios and Specifications

Table 106. Shandong Dongyue Organosilicon Materials Co.,Ltd. Third-generation Fluorinated Refrigerant Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2020-2025)

Table 107. Shandong Dongyue Organosilicon Materials Co.,Ltd. Main Business

Table 108. Shandong Dongyue Organosilicon Materials Co.,Ltd. Latest Developments

Table 109. Zhejiang Juhua Co.,Ltd. Basic Information, Third-generation Fluorinated Refrigerant Manufacturing Base, Sales Area and Its Competitors

Table 110. Zhejiang Juhua Co.,Ltd. Third-generation Fluorinated Refrigerant Product Portfolios and Specifications

Table 111. Zhejiang Juhua Co.,Ltd. Third-generation Fluorinated Refrigerant Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2020-2025)

Table 112. Zhejiang Juhua Co.,Ltd. Main Business

Table 113. Zhejiang Juhua Co.,Ltd. Latest Developments

Table 114. Jiangsu Meilan Co.,Ltd. Basic Information, Third-generation Fluorinated Refrigerant Manufacturing Base, Sales Area and Its Competitors

Table 115. Jiangsu Meilan Co.,Ltd. Third-generation Fluorinated Refrigerant Product Portfolios and Specifications

Table 116. Jiangsu Meilan Co.,Ltd. Third-generation Fluorinated Refrigerant Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2020-2025)

Table 117. Jiangsu Meilan Co.,Ltd. Main Business

Table 118. Jiangsu Meilan Co.,Ltd. Latest Developments

Table 119. Zhonghao Chenguang Co.,Ltd. Basic Information, Third-generation Fluorinated Refrigerant Manufacturing Base, Sales Area and Its Competitors

Table 120. Zhonghao Chenguang Co.,Ltd. Third-generation Fluorinated Refrigerant Product Portfolios and Specifications

Table 121. Zhonghao Chenguang Co.,Ltd. Third-generation Fluorinated Refrigerant Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2020-2025)

Table 122. Zhonghao Chenguang Co.,Ltd. Main Business

Table 123. Zhonghao Chenguang Co.,Ltd. Latest Developments

Table 124. Zhejiang Sanmei Co.,Ltd. Basic Information, Third-generation Fluorinated Refrigerant Manufacturing Base, Sales Area and Its Competitors

Table 125. Zhejiang Sanmei Co.,Ltd. Third-generation Fluorinated Refrigerant Product Portfolios and Specifications

Table 126. Zhejiang Sanmei Co.,Ltd. Third-generation Fluorinated Refrigerant Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2020-2025)

Table 127. Zhejiang Sanmei Co.,Ltd. Main Business

Table 128. Zhejiang Sanmei Co.,Ltd. Latest Developments

Table 129. Zhejiang Yonghe Refrigerant Co.,Ltd. Basic Information, Third-generation Fluorinated Refrigerant Manufacturing Base, Sales Area and Its Competitors

Table 130. Zhejiang Yonghe Refrigerant Co.,Ltd. Third-generation Fluorinated Refrigerant Product Portfolios and Specifications

Table 131. Zhejiang Yonghe Refrigerant Co.,Ltd. Third-generation Fluorinated Refrigerant Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2020-2025)

Table 132. Zhejiang Yonghe Refrigerant Co.,Ltd. Main Business

Table 133. Zhejiang Yonghe Refrigerant Co.,Ltd. Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Third-generation Fluorinated Refrigerant
- Figure 2. Third-generation Fluorinated Refrigerant Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Third-generation Fluorinated Refrigerant Sales Growth Rate 2020-2031 (Tons)
- Figure 7. Global Third-generation Fluorinated Refrigerant Revenue Growth Rate 2020-2031 (\$ millions)
- Figure 8. Third-generation Fluorinated Refrigerant Sales by Geographic Region (2020, 2024 & 2031) & (\$ millions)
- Figure 9. Third-generation Fluorinated Refrigerant Sales Market Share by Country/Region (2024)
- Figure 10. Third-generation Fluorinated Refrigerant Sales Market Share by Country/Region (2020, 2024 & 2031)
- Figure 11. Product Picture of R125 Refrigerant
- Figure 12. Product Picture of R134a Refrigerant
- Figure 13. Product Picture of R32 Refrigerant
- Figure 14. Product Picture of Other
- Figure 15. Global Third-generation Fluorinated Refrigerant Sales Market Share by Type in 2025
- Figure 16. Global Third-generation Fluorinated Refrigerant Revenue Market Share by Type (2020-2025)
- Figure 17. Third-generation Fluorinated Refrigerant Consumed in Air Conditioner and Refrigerator
- Figure 18. Global Third-generation Fluorinated Refrigerant Market: Air Conditioner and Refrigerator (2020-2025) & (Tons)
- Figure 19. Third-generation Fluorinated Refrigerant Consumed in Automotive
- Figure 20. Global Third-generation Fluorinated Refrigerant Market: Automotive (2020-2025) & (Tons)
- Figure 21. Third-generation Fluorinated Refrigerant Consumed in Foaming Agent and Aerosol
- Figure 22. Global Third-generation Fluorinated Refrigerant Market: Foaming Agent and Aerosol (2020-2025) & (Tons)
- Figure 23. Third-generation Fluorinated Refrigerant Consumed in Other

Figure 24. Global Third-generation Fluorinated Refrigerant Market: Other (2020-2025) & (Tons)

Figure 25. Global Third-generation Fluorinated Refrigerant Sale Market Share by Application (2024)

Figure 26. Global Third-generation Fluorinated Refrigerant Revenue Market Share by Application in 2025

Figure 27. Third-generation Fluorinated Refrigerant Sales by Company in 2025 (Tons)

Figure 28. Global Third-generation Fluorinated Refrigerant Sales Market Share by Company in 2025

Figure 29. Third-generation Fluorinated Refrigerant Revenue by Company in 2025 (\$ millions)

Figure 30. Global Third-generation Fluorinated Refrigerant Revenue Market Share by Company in 2025

Figure 31. Global Third-generation Fluorinated Refrigerant Sales Market Share by Geographic Region (2020-2025)

Figure 32. Global Third-generation Fluorinated Refrigerant Revenue Market Share by Geographic Region in 2025

Figure 33. Americas Third-generation Fluorinated Refrigerant Sales 2020-2025 (Tons)

Figure 34. Americas Third-generation Fluorinated Refrigerant Revenue 2020-2025 (\$ millions)

Figure 35. APAC Third-generation Fluorinated Refrigerant Sales 2020-2025 (Tons)

Figure 36. APAC Third-generation Fluorinated Refrigerant Revenue 2020-2025 (\$ millions)

Figure 37. Europe Third-generation Fluorinated Refrigerant Sales 2020-2025 (Tons)

Figure 38. Europe Third-generation Fluorinated Refrigerant Revenue 2020-2025 (\$ millions)

Figure 39. Middle East & Africa Third-generation Fluorinated Refrigerant Sales 2020-2025 (Tons)

Figure 40. Middle East & Africa Third-generation Fluorinated Refrigerant Revenue 2020-2025 (\$ millions)

Figure 41. Americas Third-generation Fluorinated Refrigerant Sales Market Share by Country in 2025

Figure 42. Americas Third-generation Fluorinated Refrigerant Revenue Market Share by Country (2020-2025)

Figure 43. Americas Third-generation Fluorinated Refrigerant Sales Market Share by Type (2020-2025)

Figure 44. Americas Third-generation Fluorinated Refrigerant Sales Market Share by Application (2020-2025)

Figure 45. United States Third-generation Fluorinated Refrigerant Revenue Growth

2020-2025 (\$ millions)

Figure 46. Canada Third-generation Fluorinated Refrigerant Revenue Growth

2020-2025 (\$ millions)

Figure 47. Mexico Third-generation Fluorinated Refrigerant Revenue Growth 2020-2025

(\$ millions)

Figure 48. Brazil Third-generation Fluorinated Refrigerant Revenue Growth 2020-2025

(\$ millions)

Figure 49. APAC Third-generation Fluorinated Refrigerant Sales Market Share by Region in 2025

Figure 50. APAC Third-generation Fluorinated Refrigerant Revenue Market Share by Region (2020-2025)

Figure 51. APAC Third-generation Fluorinated Refrigerant Sales Market Share by Type (2020-2025)

Figure 52. APAC Third-generation Fluorinated Refrigerant Sales Market Share by Application (2020-2025)

Figure 53. China Third-generation Fluorinated Refrigerant Revenue Growth 2020-2025 (\$ millions)

Figure 54. Japan Third-generation Fluorinated Refrigerant Revenue Growth 2020-2025 (\$ millions)

Figure 55. South Korea Third-generation Fluorinated Refrigerant Revenue Growth 2020-2025 (\$ millions)

Figure 56. Southeast Asia Third-generation Fluorinated Refrigerant Revenue Growth 2020-2025 (\$ millions)

Figure 57. India Third-generation Fluorinated Refrigerant Revenue Growth 2020-2025 (\$ millions)

Figure 58. Australia Third-generation Fluorinated Refrigerant Revenue Growth 2020-2025 (\$ millions)

Figure 59. China Taiwan Third-generation Fluorinated Refrigerant Revenue Growth 2020-2025 (\$ millions)

Figure 60. Europe Third-generation Fluorinated Refrigerant Sales Market Share by Country in 2025

Figure 61. Europe Third-generation Fluorinated Refrigerant Revenue Market Share by Country (2020-2025)

Figure 62. Europe Third-generation Fluorinated Refrigerant Sales Market Share by Type (2020-2025)

Figure 63. Europe Third-generation Fluorinated Refrigerant Sales Market Share by Application (2020-2025)

Figure 64. Germany Third-generation Fluorinated Refrigerant Revenue Growth 2020-2025 (\$ millions)

Figure 65. France Third-generation Fluorinated Refrigerant Revenue Growth 2020-2025 (\$ millions)

Figure 66. UK Third-generation Fluorinated Refrigerant Revenue Growth 2020-2025 (\$ millions)

Figure 67. Italy Third-generation Fluorinated Refrigerant Revenue Growth 2020-2025 (\$ millions)

Figure 68. Russia Third-generation Fluorinated Refrigerant Revenue Growth 2020-2025 (\$ millions)

Figure 69. Middle East & Africa Third-generation Fluorinated Refrigerant Sales Market Share by Country (2020-2025)

Figure 70. Middle East & Africa Third-generation Fluorinated Refrigerant Sales Market Share by Type (2020-2025)

Figure 71. Middle East & Africa Third-generation Fluorinated Refrigerant Sales Market Share by Application (2020-2025)

Figure 72. Egypt Third-generation Fluorinated Refrigerant Revenue Growth 2020-2025 (\$ millions)

Figure 73. South Africa Third-generation Fluorinated Refrigerant Revenue Growth 2020-2025 (\$ millions)

Figure 74. Israel Third-generation Fluorinated Refrigerant Revenue Growth 2020-2025 (\$ millions)

Figure 75. Turkey Third-generation Fluorinated Refrigerant Revenue Growth 2020-2025 (\$ millions)

Figure 76. GCC Countries Third-generation Fluorinated Refrigerant Revenue Growth 2020-2025 (\$ millions)

Figure 77. Manufacturing Cost Structure Analysis of Third-generation Fluorinated Refrigerant in 2025

Figure 78. Manufacturing Process Analysis of Third-generation Fluorinated Refrigerant

Figure 79. Industry Chain Structure of Third-generation Fluorinated Refrigerant

Figure 80. Channels of Distribution

Figure 81. Global Third-generation Fluorinated Refrigerant Sales Market Forecast by Region (2026-2031)

Figure 82. Global Third-generation Fluorinated Refrigerant Revenue Market Share Forecast by Region (2026-2031)

Figure 83. Global Third-generation Fluorinated Refrigerant Sales Market Share Forecast by Type (2026-2031)

Figure 84. Global Third-generation Fluorinated Refrigerant Revenue Market Share Forecast by Type (2026-2031)

Figure 85. Global Third-generation Fluorinated Refrigerant Sales Market Share Forecast by Application (2026-2031)

Figure 86. Global Third-generation Fluorinated Refrigerant Revenue Market Share Forecast by Application (2026-2031)

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