

Global Synthetic Refrigeration Oil Market Growth 2026-2032

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Abstracts

The global Synthetic Refrigeration Oil market size is predicted to grow from US\$ 1492 million in 2025 to US\$ 2008 million in 2032; it is expected to grow at a CAGR of 4.4% from 2026 to 2032.

In 2025, the global production of synthetic refrigeration oil was approximately 328,000 tons, with an average selling price of around US\$4,650 per ton. Single-line production capacity is approximately 8,000-15,000 tons per year, with an average gross profit margin of about 10-20%. Synthetic refrigeration oil is a high-performance lubricant prepared through chemical synthesis, specifically designed for the lubrication of refrigeration compressors. Unlike traditional mineral oils, synthetic refrigeration oil uses artificially synthesized hydrocarbons or ester compounds as base oils, possessing superior thermal stability, low-temperature fluidity, and oxidation resistance.

The upstream raw materials for synthetic refrigeration oil mainly include basic chemicals used in the production of polyol esters, alpha-olefins used in the production of poly-alpha-olefins, and ethylene oxide and propylene oxide used in the production of polyalkylene glycols. Its downstream applications directly include all refrigeration, air conditioning, and heat pump systems that use compressors. Core industries include household and commercial air conditioning, industrial and commercial refrigeration, automotive air conditioning, and heat pump heating. Its demand is deeply linked to global climate control, food refrigeration, and energy transition trends.

The synthetic refrigeration oil market continues to grow, driven by the global refrigeration and air conditioning industry. With increasingly stringent environmental regulations, particularly in Europe, North America, and the Asia-Pacific region, the demand for synthetic refrigeration oils is steadily increasing. The superior performance

of synthetic refrigeration oils, such as lower viscosity, higher thermal stability, and excellent moisture resistance, makes them an ideal partner for modern refrigerants. At the same time, the use of synthetic refrigeration oils helps improve the efficiency of refrigeration equipment, reduces energy consumption and wear, thus extending the service life of compressors and other refrigeration system components.

Market analysis shows that synthetic refrigeration oils are primarily used in automotive air conditioning, commercial refrigeration systems, and industrial refrigeration equipment. As consumer demands for environmental protection and energy efficiency increase, new refrigerants are gradually replacing traditional CFC refrigerants, driving the transformation of the synthetic refrigeration oil market.

However, the market still faces challenges such as rising raw material costs and unstable supply chains. To address these challenges, industry companies are improving oil performance through technological innovation and increasing investment in the research and development of environmentally friendly synthetic oils. Overall, the outlook for the synthetic refrigeration oil market remains optimistic, especially driven by high-efficiency and environmentally friendly refrigeration technologies.

LP Information, Inc. (LPI) ' newest research report, the "Synthetic Refrigeration Oil Industry Forecast" looks at past sales and reviews total world Synthetic Refrigeration Oil sales in 2025, providing a comprehensive analysis by region and market sector of projected Synthetic Refrigeration Oil sales for 2026 through 2032. With Synthetic Refrigeration Oil sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Synthetic Refrigeration Oil industry.

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Synthetic Refrigeration Oil 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 Synthetic Refrigeration Oil.

This report presents a comprehensive overview, market shares, and growth opportunities of Synthetic Refrigeration Oil market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Synthetic Oils for HCFCs

Synthetic Oils for HFCs

Segmentation by Chemical Composition:

Polyol Ester Oil

Polyalkylene Glycol Oil

Alkylbenzene Oil

Polyester Oil

Others

Segmentation by Viscosity Grade:

Low Viscosity Synthetic Oils

Medium Viscosity Synthetic Oils

High Viscosity Synthetic Oils

Segmentation by Application:

Air Conditioning

Refrigeration Compressor

Others

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.

Mobil

Shell

BASF

FUCHS

Hoffman

KALEN INTERNATIONAL

Sinopec

Anhui Zhongtian Petrochemical

MENIC

HUIFENG

Kroneseder.Jama

Synnex

CNPC

Key Questions Addressed in this Report

What is the 10-year outlook for the global Synthetic Refrigeration Oil market?

What factors are driving Synthetic Refrigeration Oil market growth, globally and by region?

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

How do Synthetic Refrigeration Oil market opportunities vary by end market size?

How does Synthetic Refrigeration Oil 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 Synthetic Refrigeration Oil Annual Sales 2021-2032
 - 2.1.2 World Current & Future Analysis for Synthetic Refrigeration Oil by Geographic Region, 2021, 2025 & 2032
 - 2.1.3 World Current & Future Analysis for Synthetic Refrigeration Oil by Country/Region, 2021, 2025 & 2032
- 2.2 Synthetic Refrigeration Oil Segment by Type
 - 2.2.1 Synthetic Oils for HCFCs
 - 2.2.2 Synthetic Oils for HFCs
 - 2.2.3 Synthetic Refrigeration Oil Sales by Type
 - 2.2.3.1 Global Synthetic Refrigeration Oil Sales Market Share by Type (2021-2026)
 - 2.2.3.2 Global Synthetic Refrigeration Oil Revenue and Market Share by Type (2021-2026)
 - 2.2.3.3 Global Synthetic Refrigeration Oil Sale Price by Type (2021-2026)
- 2.3 Synthetic Refrigeration Oil Segment by Chemical Composition
 - 2.3.1 Polyol Ester Oil
 - 2.3.2 Polyalkylene Glycol Oil
 - 2.3.3 Alkylbenzene Oil
 - 2.3.4 Polyester Oil
 - 2.3.5 Others
 - 2.3.6 Synthetic Refrigeration Oil Sales by Chemical Composition
 - 2.3.6.1 Global Synthetic Refrigeration Oil Sales Market Share by Chemical Composition (2021-2026)
 - 2.3.6.2 Global Synthetic Refrigeration Oil Revenue and Market Share by Chemical

Composition (2021-2026)

- 2.3.6.3 Global Synthetic Refrigeration Oil Sale Price by Chemical Composition (2021-2026)
- 2.4 Synthetic Refrigeration Oil Segment by Viscosity Grade
 - 2.4.1 Low Viscosity Synthetic Oils
 - 2.4.2 Medium Viscosity Synthetic Oils
 - 2.4.3 High Viscosity Synthetic Oils
 - 2.4.4 Synthetic Refrigeration Oil Sales by Viscosity Grade
 - 2.4.4.1 Global Synthetic Refrigeration Oil Sales Market Share by Viscosity Grade (2021-2026)
 - 2.4.4.2 Global Synthetic Refrigeration Oil Revenue and Market Share by Viscosity Grade (2021-2026)
 - 2.4.4.3 Global Synthetic Refrigeration Oil Sale Price by Viscosity Grade (2021-2026)
- 2.5 Synthetic Refrigeration Oil Segment by Application
 - 2.5.1 Air Conditioning
 - 2.5.2 Refrigeration Compressor
 - 2.5.3 Others
 - 2.5.4 Synthetic Refrigeration Oil Sales by Application
 - 2.5.4.1 Global Synthetic Refrigeration Oil Sale Market Share by Application (2021-2026)
 - 2.5.4.2 Global Synthetic Refrigeration Oil Revenue and Market Share by Application (2021-2026)
 - 2.5.4.3 Global Synthetic Refrigeration Oil Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

- 3.1 Global Synthetic Refrigeration Oil Breakdown Data by Company
 - 3.1.1 Global Synthetic Refrigeration Oil Annual Sales by Company (2021-2026)
 - 3.1.2 Global Synthetic Refrigeration Oil Sales Market Share by Company (2021-2026)
- 3.2 Global Synthetic Refrigeration Oil Annual Revenue by Company (2021-2026)
 - 3.2.1 Global Synthetic Refrigeration Oil Revenue by Company (2021-2026)
 - 3.2.2 Global Synthetic Refrigeration Oil Revenue Market Share by Company (2021-2026)
- 3.3 Global Synthetic Refrigeration Oil Sale Price by Company
- 3.4 Key Manufacturers Synthetic Refrigeration Oil Producing Area Distribution, Sales Area, Product Type
 - 3.4.1 Key Manufacturers Synthetic Refrigeration Oil Product Location Distribution
 - 3.4.2 Players Synthetic Refrigeration Oil 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 SYNTHETIC REFRIGERATION OIL BY GEOGRAPHIC REGION

- 4.1 World Historic Synthetic Refrigeration Oil Market Size by Geographic Region (2021-2026)
 - 4.1.1 Global Synthetic Refrigeration Oil Annual Sales by Geographic Region (2021-2026)
 - 4.1.2 Global Synthetic Refrigeration Oil Annual Revenue by Geographic Region (2021-2026)
- 4.2 World Historic Synthetic Refrigeration Oil Market Size by Country/Region (2021-2026)
 - 4.2.1 Global Synthetic Refrigeration Oil Annual Sales by Country/Region (2021-2026)
 - 4.2.2 Global Synthetic Refrigeration Oil Annual Revenue by Country/Region (2021-2026)
- 4.3 Americas Synthetic Refrigeration Oil Sales Growth
- 4.4 APAC Synthetic Refrigeration Oil Sales Growth
- 4.5 Europe Synthetic Refrigeration Oil Sales Growth
- 4.6 Middle East & Africa Synthetic Refrigeration Oil Sales Growth

5 AMERICAS

- 5.1 Americas Synthetic Refrigeration Oil Sales by Country
 - 5.1.1 Americas Synthetic Refrigeration Oil Sales by Country (2021-2026)
 - 5.1.2 Americas Synthetic Refrigeration Oil Revenue by Country (2021-2026)
- 5.2 Americas Synthetic Refrigeration Oil Sales by Type (2021-2026)
- 5.3 Americas Synthetic Refrigeration Oil Sales by Application (2021-2026)
- 5.4 United States
- 5.5 Canada
- 5.6 Mexico
- 5.7 Brazil

6 APAC

- 6.1 APAC Synthetic Refrigeration Oil Sales by Region

- 6.1.1 APAC Synthetic Refrigeration Oil Sales by Region (2021-2026)
- 6.1.2 APAC Synthetic Refrigeration Oil Revenue by Region (2021-2026)
- 6.2 APAC Synthetic Refrigeration Oil Sales by Type (2021-2026)
- 6.3 APAC Synthetic Refrigeration Oil 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 Synthetic Refrigeration Oil by Country
 - 7.1.1 Europe Synthetic Refrigeration Oil Sales by Country (2021-2026)
 - 7.1.2 Europe Synthetic Refrigeration Oil Revenue by Country (2021-2026)
- 7.2 Europe Synthetic Refrigeration Oil Sales by Type (2021-2026)
- 7.3 Europe Synthetic Refrigeration Oil 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 Synthetic Refrigeration Oil by Country
 - 8.1.1 Middle East & Africa Synthetic Refrigeration Oil Sales by Country (2021-2026)
 - 8.1.2 Middle East & Africa Synthetic Refrigeration Oil Revenue by Country (2021-2026)
- 8.2 Middle East & Africa Synthetic Refrigeration Oil Sales by Type (2021-2026)
- 8.3 Middle East & Africa Synthetic Refrigeration Oil 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 Synthetic Refrigeration Oil
- 10.3 Manufacturing Process Analysis of Synthetic Refrigeration Oil
- 10.4 Industry Chain Structure of Synthetic Refrigeration Oil

11 MARKETING, DISTRIBUTORS AND CUSTOMER

- 11.1 Sales Channel
 - 11.1.1 Direct Channels
 - 11.1.2 Indirect Channels
- 11.2 Synthetic Refrigeration Oil Distributors
- 11.3 Synthetic Refrigeration Oil Customer

12 WORLD FORECAST REVIEW FOR SYNTHETIC REFRIGERATION OIL BY GEOGRAPHIC REGION

- 12.1 Global Synthetic Refrigeration Oil Market Size Forecast by Region
 - 12.1.1 Global Synthetic Refrigeration Oil Forecast by Region (2027-2032)
 - 12.1.2 Global Synthetic Refrigeration Oil 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 Synthetic Refrigeration Oil Forecast by Type (2027-2032)
- 12.7 Global Synthetic Refrigeration Oil Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

- 13.1 Mobil
 - 13.1.1 Mobil Company Information

- 13.1.2 Mobil Synthetic Refrigeration Oil Product Portfolios and Specifications
- 13.1.3 Mobil Synthetic Refrigeration Oil Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.1.4 Mobil Main Business Overview
- 13.1.5 Mobil Latest Developments
- 13.2 Shell
 - 13.2.1 Shell Company Information
 - 13.2.2 Shell Synthetic Refrigeration Oil Product Portfolios and Specifications
 - 13.2.3 Shell Synthetic Refrigeration Oil Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.2.4 Shell Main Business Overview
 - 13.2.5 Shell Latest Developments
- 13.3 BASF
 - 13.3.1 BASF Company Information
 - 13.3.2 BASF Synthetic Refrigeration Oil Product Portfolios and Specifications
 - 13.3.3 BASF Synthetic Refrigeration Oil Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.3.4 BASF Main Business Overview
 - 13.3.5 BASF Latest Developments
- 13.4 FUCHS
 - 13.4.1 FUCHS Company Information
 - 13.4.2 FUCHS Synthetic Refrigeration Oil Product Portfolios and Specifications
 - 13.4.3 FUCHS Synthetic Refrigeration Oil Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.4.4 FUCHS Main Business Overview
 - 13.4.5 FUCHS Latest Developments
- 13.5 Hoffman
 - 13.5.1 Hoffman Company Information
 - 13.5.2 Hoffman Synthetic Refrigeration Oil Product Portfolios and Specifications
 - 13.5.3 Hoffman Synthetic Refrigeration Oil Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.5.4 Hoffman Main Business Overview
 - 13.5.5 Hoffman Latest Developments
- 13.6 KALEN INTERNATIONAL
 - 13.6.1 KALEN INTERNATIONAL Company Information
 - 13.6.2 KALEN INTERNATIONAL Synthetic Refrigeration Oil Product Portfolios and Specifications
 - 13.6.3 KALEN INTERNATIONAL Synthetic Refrigeration Oil Sales, Revenue, Price and Gross Margin (2021-2026)

- 13.6.4 KALEN INTERNATIONAL Main Business Overview
- 13.6.5 KALEN INTERNATIONAL Latest Developments
- 13.7 Sinopec
 - 13.7.1 Sinopec Company Information
 - 13.7.2 Sinopec Synthetic Refrigeration Oil Product Portfolios and Specifications
 - 13.7.3 Sinopec Synthetic Refrigeration Oil Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.7.4 Sinopec Main Business Overview
 - 13.7.5 Sinopec Latest Developments
- 13.8 Anhui Zhongtian Petrochemical
 - 13.8.1 Anhui Zhongtian Petrochemical Company Information
 - 13.8.2 Anhui Zhongtian Petrochemical Synthetic Refrigeration Oil Product Portfolios and Specifications
 - 13.8.3 Anhui Zhongtian Petrochemical Synthetic Refrigeration Oil Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.8.4 Anhui Zhongtian Petrochemical Main Business Overview
 - 13.8.5 Anhui Zhongtian Petrochemical Latest Developments
- 13.9 MENIC
 - 13.9.1 MENIC Company Information
 - 13.9.2 MENIC Synthetic Refrigeration Oil Product Portfolios and Specifications
 - 13.9.3 MENIC Synthetic Refrigeration Oil Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.9.4 MENIC Main Business Overview
 - 13.9.5 MENIC Latest Developments
- 13.10 HUIFENG
 - 13.10.1 HUIFENG Company Information
 - 13.10.2 HUIFENG Synthetic Refrigeration Oil Product Portfolios and Specifications
 - 13.10.3 HUIFENG Synthetic Refrigeration Oil Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.10.4 HUIFENG Main Business Overview
 - 13.10.5 HUIFENG Latest Developments
- 13.11 Kroneseder.Jama
 - 13.11.1 Kroneseder.Jama Company Information
 - 13.11.2 Kroneseder.Jama Synthetic Refrigeration Oil Product Portfolios and Specifications
 - 13.11.3 Kroneseder.Jama Synthetic Refrigeration Oil Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.11.4 Kroneseder.Jama Main Business Overview
 - 13.11.5 Kroneseder.Jama Latest Developments

13.12 Synnex

13.12.1 Synnex Company Information

13.12.2 Synnex Synthetic Refrigeration Oil Product Portfolios and Specifications

13.12.3 Synnex Synthetic Refrigeration Oil Sales, Revenue, Price and Gross Margin
(2021-2026)

13.12.4 Synnex Main Business Overview

13.12.5 Synnex Latest Developments

13.13 CNPC

13.13.1 CNPC Company Information

13.13.2 CNPC Synthetic Refrigeration Oil Product Portfolios and Specifications

13.13.3 CNPC Synthetic Refrigeration Oil Sales, Revenue, Price and Gross Margin
(2021-2026)

13.13.4 CNPC Main Business Overview

13.13.5 CNPC Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

- Table 1. Synthetic Refrigeration Oil Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Table 2. Synthetic Refrigeration Oil Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)
- Table 3. Major Players of Synthetic Oils for HCFCs
- Table 4. Major Players of Synthetic Oils for HFCs
- Table 5. Global Synthetic Refrigeration Oil Sales by Type (2021-2026) & (Kilotons)
- Table 6. Global Synthetic Refrigeration Oil Sales Market Share by Type (2021-2026)
- Table 7. Global Synthetic Refrigeration Oil Revenue by Type (2021-2026) & (\$ million)
- Table 8. Global Synthetic Refrigeration Oil Revenue Market Share by Type (2021-2026)
- Table 9. Global Synthetic Refrigeration Oil Sale Price by Type (2021-2026) & (US\$/Ton)
- Table 10. Major Players of Polyol Ester Oil
- Table 11. Major Players of Polyalkylene Glycol Oil
- Table 12. Major Players of Alkylbenzene Oil
- Table 13. Major Players of Polyester Oil
- Table 14. Major Players of Others
- Table 15. Global Synthetic Refrigeration Oil Sales by Chemical Composition (2021-2026) & (Kilotons)
- Table 16. Global Synthetic Refrigeration Oil Sales Market Share by Chemical Composition (2021-2026)
- Table 17. Global Synthetic Refrigeration Oil Revenue by Chemical Composition (2021-2026) & (\$ million)
- Table 18. Global Synthetic Refrigeration Oil Revenue Market Share by Chemical Composition (2021-2026)
- Table 19. Global Synthetic Refrigeration Oil Sale Price by Chemical Composition (2021-2026) & (US\$/Ton)
- Table 20. Major Players of Low Viscosity Synthetic Oils
- Table 21. Major Players of Medium Viscosity Synthetic Oils
- Table 22. Major Players of High Viscosity Synthetic Oils
- Table 23. Global Synthetic Refrigeration Oil Sales by Viscosity Grade (2021-2026) & (Kilotons)
- Table 24. Global Synthetic Refrigeration Oil Sales Market Share by Viscosity Grade (2021-2026)
- Table 25. Global Synthetic Refrigeration Oil Revenue by Viscosity Grade (2021-2026) & (\$ million)

- Table 26. Global Synthetic Refrigeration Oil Revenue Market Share by Viscosity Grade (2021-2026)
- Table 27. Global Synthetic Refrigeration Oil Sale Price by Viscosity Grade (2021-2026) & (US\$/Ton)
- Table 28. Global Synthetic Refrigeration Oil Sale by Application (2021-2026) & (Kilotons)
- Table 29. Global Synthetic Refrigeration Oil Sale Market Share by Application (2021-2026)
- Table 30. Global Synthetic Refrigeration Oil Revenue by Application (2021-2026) & (\$ million)
- Table 31. Global Synthetic Refrigeration Oil Revenue Market Share by Application (2021-2026)
- Table 32. Global Synthetic Refrigeration Oil Sale Price by Application (2021-2026) & (US\$/Ton)
- Table 33. Global Synthetic Refrigeration Oil Sales by Company (2021-2026) & (Kilotons)
- Table 34. Global Synthetic Refrigeration Oil Sales Market Share by Company (2021-2026)
- Table 35. Global Synthetic Refrigeration Oil Revenue by Company (2021-2026) & (\$ millions)
- Table 36. Global Synthetic Refrigeration Oil Revenue Market Share by Company (2021-2026)
- Table 37. Global Synthetic Refrigeration Oil Sale Price by Company (2021-2026) & (US\$/Ton)
- Table 38. Key Manufacturers Synthetic Refrigeration Oil Producing Area Distribution and Sales Area
- Table 39. Players Synthetic Refrigeration Oil Products Offered
- Table 40. Synthetic Refrigeration Oil Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
- Table 41. New Products and Potential Entrants
- Table 42. Market M&A Activity & Strategy
- Table 43. Global Synthetic Refrigeration Oil Sales by Geographic Region (2021-2026) & (Kilotons)
- Table 44. Global Synthetic Refrigeration Oil Sales Market Share Geographic Region (2021-2026)
- Table 45. Global Synthetic Refrigeration Oil Revenue by Geographic Region (2021-2026) & (\$ millions)
- Table 46. Global Synthetic Refrigeration Oil Revenue Market Share by Geographic Region (2021-2026)

Table 47. Global Synthetic Refrigeration Oil Sales by Country/Region (2021-2026) & (Kilotons)

Table 48. Global Synthetic Refrigeration Oil Sales Market Share by Country/Region (2021-2026)

Table 49. Global Synthetic Refrigeration Oil Revenue by Country/Region (2021-2026) & (\$ millions)

Table 50. Global Synthetic Refrigeration Oil Revenue Market Share by Country/Region (2021-2026)

Table 51. Americas Synthetic Refrigeration Oil Sales by Country (2021-2026) & (Kilotons)

Table 52. Americas Synthetic Refrigeration Oil Sales Market Share by Country (2021-2026)

Table 53. Americas Synthetic Refrigeration Oil Revenue by Country (2021-2026) & (\$ millions)

Table 54. Americas Synthetic Refrigeration Oil Sales by Type (2021-2026) & (Kilotons)

Table 55. Americas Synthetic Refrigeration Oil Sales by Application (2021-2026) & (Kilotons)

Table 56. APAC Synthetic Refrigeration Oil Sales by Region (2021-2026) & (Kilotons)

Table 57. APAC Synthetic Refrigeration Oil Sales Market Share by Region (2021-2026)

Table 58. APAC Synthetic Refrigeration Oil Revenue by Region (2021-2026) & (\$ millions)

Table 59. APAC Synthetic Refrigeration Oil Sales by Type (2021-2026) & (Kilotons)

Table 60. APAC Synthetic Refrigeration Oil Sales by Application (2021-2026) & (Kilotons)

Table 61. Europe Synthetic Refrigeration Oil Sales by Country (2021-2026) & (Kilotons)

Table 62. Europe Synthetic Refrigeration Oil Revenue by Country (2021-2026) & (\$ millions)

Table 63. Europe Synthetic Refrigeration Oil Sales by Type (2021-2026) & (Kilotons)

Table 64. Europe Synthetic Refrigeration Oil Sales by Application (2021-2026) & (Kilotons)

Table 65. Middle East & Africa Synthetic Refrigeration Oil Sales by Country (2021-2026) & (Kilotons)

Table 66. Middle East & Africa Synthetic Refrigeration Oil Revenue Market Share by Country (2021-2026)

Table 67. Middle East & Africa Synthetic Refrigeration Oil Sales by Type (2021-2026) & (Kilotons)

Table 68. Middle East & Africa Synthetic Refrigeration Oil Sales by Application (2021-2026) & (Kilotons)

Table 69. Key Market Drivers & Growth Opportunities of Synthetic Refrigeration Oil

- Table 70. Key Market Challenges & Risks of Synthetic Refrigeration Oil
- Table 71. Key Industry Trends of Synthetic Refrigeration Oil
- Table 72. Synthetic Refrigeration Oil Raw Material
- Table 73. Key Suppliers of Raw Materials
- Table 74. Synthetic Refrigeration Oil Distributors List
- Table 75. Synthetic Refrigeration Oil Customer List
- Table 76. Global Synthetic Refrigeration Oil Sales Forecast by Region (2027-2032) & (Kilotons)
- Table 77. Global Synthetic Refrigeration Oil Revenue Forecast by Region (2027-2032) & (\$ millions)
- Table 78. Americas Synthetic Refrigeration Oil Sales Forecast by Country (2027-2032) & (Kilotons)
- Table 79. Americas Synthetic Refrigeration Oil Annual Revenue Forecast by Country (2027-2032) & (\$ millions)
- Table 80. APAC Synthetic Refrigeration Oil Sales Forecast by Region (2027-2032) & (Kilotons)
- Table 81. APAC Synthetic Refrigeration Oil Annual Revenue Forecast by Region (2027-2032) & (\$ millions)
- Table 82. Europe Synthetic Refrigeration Oil Sales Forecast by Country (2027-2032) & (Kilotons)
- Table 83. Europe Synthetic Refrigeration Oil Revenue Forecast by Country (2027-2032) & (\$ millions)
- Table 84. Middle East & Africa Synthetic Refrigeration Oil Sales Forecast by Country (2027-2032) & (Kilotons)
- Table 85. Middle East & Africa Synthetic Refrigeration Oil Revenue Forecast by Country (2027-2032) & (\$ millions)
- Table 86. Global Synthetic Refrigeration Oil Sales Forecast by Type (2027-2032) & (Kilotons)
- Table 87. Global Synthetic Refrigeration Oil Revenue Forecast by Type (2027-2032) & (\$ millions)
- Table 88. Global Synthetic Refrigeration Oil Sales Forecast by Application (2027-2032) & (Kilotons)
- Table 89. Global Synthetic Refrigeration Oil Revenue Forecast by Application (2027-2032) & (\$ millions)
- Table 90. Mobil Basic Information, Synthetic Refrigeration Oil Manufacturing Base, Sales Area and Its Competitors
- Table 91. Mobil Synthetic Refrigeration Oil Product Portfolios and Specifications
- Table 92. Mobil Synthetic Refrigeration Oil Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

- Table 93. Mobil Main Business
- Table 94. Mobil Latest Developments
- Table 95. Shell Basic Information, Synthetic Refrigeration Oil Manufacturing Base, Sales Area and Its Competitors
- Table 96. Shell Synthetic Refrigeration Oil Product Portfolios and Specifications
- Table 97. Shell Synthetic Refrigeration Oil Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)
- Table 98. Shell Main Business
- Table 99. Shell Latest Developments
- Table 100. BASF Basic Information, Synthetic Refrigeration Oil Manufacturing Base, Sales Area and Its Competitors
- Table 101. BASF Synthetic Refrigeration Oil Product Portfolios and Specifications
- Table 102. BASF Synthetic Refrigeration Oil Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)
- Table 103. BASF Main Business
- Table 104. BASF Latest Developments
- Table 105. FUCHS Basic Information, Synthetic Refrigeration Oil Manufacturing Base, Sales Area and Its Competitors
- Table 106. FUCHS Synthetic Refrigeration Oil Product Portfolios and Specifications
- Table 107. FUCHS Synthetic Refrigeration Oil Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)
- Table 108. FUCHS Main Business
- Table 109. FUCHS Latest Developments
- Table 110. Hoffman Basic Information, Synthetic Refrigeration Oil Manufacturing Base, Sales Area and Its Competitors
- Table 111. Hoffman Synthetic Refrigeration Oil Product Portfolios and Specifications
- Table 112. Hoffman Synthetic Refrigeration Oil Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)
- Table 113. Hoffman Main Business
- Table 114. Hoffman Latest Developments
- Table 115. KALEN INTERNATIONAL Basic Information, Synthetic Refrigeration Oil Manufacturing Base, Sales Area and Its Competitors
- Table 116. KALEN INTERNATIONAL Synthetic Refrigeration Oil Product Portfolios and Specifications
- Table 117. KALEN INTERNATIONAL Synthetic Refrigeration Oil Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)
- Table 118. KALEN INTERNATIONAL Main Business
- Table 119. KALEN INTERNATIONAL Latest Developments
- Table 120. Sinopec Basic Information, Synthetic Refrigeration Oil Manufacturing Base,

Sales Area and Its Competitors

Table 121. Sinopec Synthetic Refrigeration Oil Product Portfolios and Specifications

Table 122. Sinopec Synthetic Refrigeration Oil Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 123. Sinopec Main Business

Table 124. Sinopec Latest Developments

Table 125. Anhui Zhongtian Petrochemical Basic Information, Synthetic Refrigeration Oil Manufacturing Base, Sales Area and Its Competitors

Table 126. Anhui Zhongtian Petrochemical Synthetic Refrigeration Oil Product Portfolios and Specifications

Table 127. Anhui Zhongtian Petrochemical Synthetic Refrigeration Oil Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 128. Anhui Zhongtian Petrochemical Main Business

Table 129. Anhui Zhongtian Petrochemical Latest Developments

Table 130. MENIC Basic Information, Synthetic Refrigeration Oil Manufacturing Base, Sales Area and Its Competitors

Table 131. MENIC Synthetic Refrigeration Oil Product Portfolios and Specifications

Table 132. MENIC Synthetic Refrigeration Oil Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 133. MENIC Main Business

Table 134. MENIC Latest Developments

Table 135. HUIFENG Basic Information, Synthetic Refrigeration Oil Manufacturing Base, Sales Area and Its Competitors

Table 136. HUIFENG Synthetic Refrigeration Oil Product Portfolios and Specifications

Table 137. HUIFENG Synthetic Refrigeration Oil Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 138. HUIFENG Main Business

Table 139. HUIFENG Latest Developments

Table 140. Kroneseder.Jama Basic Information, Synthetic Refrigeration Oil Manufacturing Base, Sales Area and Its Competitors

Table 141. Kroneseder.Jama Synthetic Refrigeration Oil Product Portfolios and Specifications

Table 142. Kroneseder.Jama Synthetic Refrigeration Oil Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 143. Kroneseder.Jama Main Business

Table 144. Kroneseder.Jama Latest Developments

Table 145. Synnex Basic Information, Synthetic Refrigeration Oil Manufacturing Base, Sales Area and Its Competitors

Table 146. Synnex Synthetic Refrigeration Oil Product Portfolios and Specifications

Table 147. Synnex Synthetic Refrigeration Oil Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 148. Synnex Main Business

Table 149. Synnex Latest Developments

Table 150. CNPC Basic Information, Synthetic Refrigeration Oil Manufacturing Base, Sales Area and Its Competitors

Table 151. CNPC Synthetic Refrigeration Oil Product Portfolios and Specifications

Table 152. CNPC Synthetic Refrigeration Oil Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 153. CNPC Main Business

Table 154. CNPC Latest Developments

List Of Figures

LIST OF FIGURES

Figure 1. Picture of Synthetic Refrigeration Oil

Figure 2. Synthetic Refrigeration Oil Report Years Considered

Figure 3. Research Objectives

Figure 4. Research Methodology

Figure 5. Research Process and Data Source

Figure 6. Global Synthetic Refrigeration Oil Sales Growth Rate 2021-2032 (Kilotons)

Figure 7. Global Synthetic Refrigeration Oil Revenue Growth Rate 2021-2032 (\$ millions)

Figure 8. Synthetic Refrigeration Oil Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Figure 9. Synthetic Refrigeration Oil Sales Market Share by Country/Region (2025)

Figure 10. Synthetic Refrigeration Oil Sales Market Share by Country/Region (2021, 2025 & 2032)

Figure 11. Product Picture of Synthetic Oils for HCFCs

Figure 12. Product Picture of Synthetic Oils for HFCs

Figure 13. Global Synthetic Refrigeration Oil Sales Market Share by Type in 2026

Figure 14. Global Synthetic Refrigeration Oil Revenue Market Share by Type (2021-2026)

Figure 15. Product Picture of Polyol Ester Oil

Figure 16. Product Picture of Polyalkylene Glycol Oil

Figure 17. Product Picture of Alkylbenzene Oil

Figure 18. Product Picture of Polyester Oil

Figure 19. Product Picture of Others

Figure 20. Global Synthetic Refrigeration Oil Sales Market Share by Chemical Composition in 2026

Figure 21. Global Synthetic Refrigeration Oil Revenue Market Share by Chemical Composition (2021-2026)

Figure 22. Product Picture of Low Viscosity Synthetic Oils

Figure 23. Product Picture of Medium Viscosity Synthetic Oils

Figure 24. Product Picture of High Viscosity Synthetic Oils

Figure 25. Global Synthetic Refrigeration Oil Sales Market Share by Viscosity Grade in 2026

Figure 26. Global Synthetic Refrigeration Oil Revenue Market Share by Viscosity Grade (2021-2026)

Figure 27. Synthetic Refrigeration Oil Consumed in Air Conditioning

Figure 28. Global Synthetic Refrigeration Oil Market: Air Conditioning (2021-2026) & (Kilotons)

Figure 29. Synthetic Refrigeration Oil Consumed in Refrigeration Compressor

Figure 30. Global Synthetic Refrigeration Oil Market: Refrigeration Compressor (2021-2026) & (Kilotons)

Figure 31. Synthetic Refrigeration Oil Consumed in Others

Figure 32. Global Synthetic Refrigeration Oil Market: Others (2021-2026) & (Kilotons)

Figure 33. Global Synthetic Refrigeration Oil Sale Market Share by Application (2025)

Figure 34. Global Synthetic Refrigeration Oil Revenue Market Share by Application in 2026

Figure 35. Synthetic Refrigeration Oil Sales by Company in 2026 (Kilotons)

Figure 36. Global Synthetic Refrigeration Oil Sales Market Share by Company in 2026

Figure 37. Synthetic Refrigeration Oil Revenue by Company in 2026 (\$ millions)

Figure 38. Global Synthetic Refrigeration Oil Revenue Market Share by Company in 2026

Figure 39. Global Synthetic Refrigeration Oil Sales Market Share by Geographic Region (2021-2026)

Figure 40. Global Synthetic Refrigeration Oil Revenue Market Share by Geographic Region in 2026

Figure 41. Americas Synthetic Refrigeration Oil Sales 2021-2026 (Kilotons)

Figure 42. Americas Synthetic Refrigeration Oil Revenue 2021-2026 (\$ millions)

Figure 43. APAC Synthetic Refrigeration Oil Sales 2021-2026 (Kilotons)

Figure 44. APAC Synthetic Refrigeration Oil Revenue 2021-2026 (\$ millions)

Figure 45. Europe Synthetic Refrigeration Oil Sales 2021-2026 (Kilotons)

Figure 46. Europe Synthetic Refrigeration Oil Revenue 2021-2026 (\$ millions)

Figure 47. Middle East & Africa Synthetic Refrigeration Oil Sales 2021-2026 (Kilotons)

Figure 48. Middle East & Africa Synthetic Refrigeration Oil Revenue 2021-2026 (\$ millions)

Figure 49. Americas Synthetic Refrigeration Oil Sales Market Share by Country in 2026

Figure 50. Americas Synthetic Refrigeration Oil Revenue Market Share by Country (2021-2026)

Figure 51. Americas Synthetic Refrigeration Oil Sales Market Share by Type (2021-2026)

Figure 52. Americas Synthetic Refrigeration Oil Sales Market Share by Application (2021-2026)

Figure 53. United States Synthetic Refrigeration Oil Revenue Growth 2021-2026 (\$ millions)

Figure 54. Canada Synthetic Refrigeration Oil Revenue Growth 2021-2026 (\$ millions)

Figure 55. Mexico Synthetic Refrigeration Oil Revenue Growth 2021-2026 (\$ millions)

Figure 56. Brazil Synthetic Refrigeration Oil Revenue Growth 2021-2026 (\$ millions)

Figure 57. APAC Synthetic Refrigeration Oil Sales Market Share by Region in 2026

Figure 58. APAC Synthetic Refrigeration Oil Revenue Market Share by Region (2021-2026)

Figure 59. APAC Synthetic Refrigeration Oil Sales Market Share by Type (2021-2026)

Figure 60. APAC Synthetic Refrigeration Oil Sales Market Share by Application (2021-2026)

Figure 61. China Synthetic Refrigeration Oil Revenue Growth 2021-2026 (\$ millions)

Figure 62. Japan Synthetic Refrigeration Oil Revenue Growth 2021-2026 (\$ millions)

Figure 63. South Korea Synthetic Refrigeration Oil Revenue Growth 2021-2026 (\$ millions)

Figure 64. Southeast Asia Synthetic Refrigeration Oil Revenue Growth 2021-2026 (\$ millions)

Figure 65. India Synthetic Refrigeration Oil Revenue Growth 2021-2026 (\$ millions)

Figure 66. Australia Synthetic Refrigeration Oil Revenue Growth 2021-2026 (\$ millions)

Figure 67. China Taiwan Synthetic Refrigeration Oil Revenue Growth 2021-2026 (\$ millions)

Figure 68. Europe Synthetic Refrigeration Oil Sales Market Share by Country in 2026

Figure 69. Europe Synthetic Refrigeration Oil Revenue Market Share by Country (2021-2026)

Figure 70. Europe Synthetic Refrigeration Oil Sales Market Share by Type (2021-2026)

Figure 71. Europe Synthetic Refrigeration Oil Sales Market Share by Application (2021-2026)

Figure 72. Germany Synthetic Refrigeration Oil Revenue Growth 2021-2026 (\$ millions)

Figure 73. France Synthetic Refrigeration Oil Revenue Growth 2021-2026 (\$ millions)

Figure 74. UK Synthetic Refrigeration Oil Revenue Growth 2021-2026 (\$ millions)

Figure 75. Italy Synthetic Refrigeration Oil Revenue Growth 2021-2026 (\$ millions)

Figure 76. Russia Synthetic Refrigeration Oil Revenue Growth 2021-2026 (\$ millions)

Figure 77. Middle East & Africa Synthetic Refrigeration Oil Sales Market Share by Country (2021-2026)

Figure 78. Middle East & Africa Synthetic Refrigeration Oil Sales Market Share by Type (2021-2026)

Figure 79. Middle East & Africa Synthetic Refrigeration Oil Sales Market Share by Application (2021-2026)

Figure 80. Egypt Synthetic Refrigeration Oil Revenue Growth 2021-2026 (\$ millions)

Figure 81. South Africa Synthetic Refrigeration Oil Revenue Growth 2021-2026 (\$ millions)

Figure 82. Israel Synthetic Refrigeration Oil Revenue Growth 2021-2026 (\$ millions)

Figure 83. Turkey Synthetic Refrigeration Oil Revenue Growth 2021-2026 (\$ millions)

Figure 84. GCC Countries Synthetic Refrigeration Oil Revenue Growth 2021-2026 (\$ millions)

Figure 85. Manufacturing Cost Structure Analysis of Synthetic Refrigeration Oil in 2026

Figure 86. Manufacturing Process Analysis of Synthetic Refrigeration Oil

Figure 87. Industry Chain Structure of Synthetic Refrigeration Oil

Figure 88. Channels of Distribution

Figure 89. Global Synthetic Refrigeration Oil Sales Market Forecast by Region (2027-2032)

Figure 90. Global Synthetic Refrigeration Oil Revenue Market Share Forecast by Region (2027-2032)

Figure 91. Global Synthetic Refrigeration Oil Sales Market Share Forecast by Type (2027-2032)

Figure 92. Global Synthetic Refrigeration Oil Revenue Market Share Forecast by Type (2027-2032)

Figure 93. Global Synthetic Refrigeration Oil Sales Market Share Forecast by Application (2027-2032)

Figure 94. Global Synthetic Refrigeration Oil Revenue Market Share Forecast by Application (2027-2032)

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