

Global Synthetic Refrigeration Oil 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 Synthetic Refrigeration Oil market size was valued at US\$ 1569 million in 2025 and is forecast to a readjusted size of US\$ 2081 million by 2032 with a CAGR of 4.1% during review period.

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.

This report is a detailed and comprehensive analysis for global Synthetic Refrigeration Oil market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type 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 Synthetic Refrigeration Oil market size and forecasts, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Synthetic Refrigeration Oil market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Synthetic Refrigeration Oil market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Kilotons), and average

selling prices (US\$/Ton), 2021-2032

Global Synthetic Refrigeration Oil market shares of main players, shipments in revenue (\$ Million), sales quantity (Kilotons), and ASP (US\$/Ton), 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 Synthetic Refrigeration Oil

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 Synthetic Refrigeration Oil 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 Mobil, Shell, BASF, FUCHS, Hoffman, KALEN INTERNATIONAL, Sinopec, Anhui Zhongtian Petrochemical, MENIC, HUIFENG, etc.

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

Market Segmentation

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

Market segment by Type

Synthetic Oils for HCFCs

Synthetic Oils for HFCs

Market segment by Chemical Composition

Polyol Ester Oil

Polyalkylene Glycol Oil

Alkylbenzene Oil

Polyester Oil

Others

Market segment by Viscosity Grade

Low Viscosity Synthetic Oils

Medium Viscosity Synthetic Oils

High Viscosity Synthetic Oils

Market segment by Application

Air Conditioning

Refrigeration Compressor

Others

Major players covered

Mobil

Shell

BASF

FUCHS

Hoffman

KALEN INTERNATIONAL

Sinopec

Anhui Zhongtian Petrochemical

MENIC

HUIFENG

Kroneseder.Jama

Synnex

CNPC

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Synthetic Refrigeration Oil product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Synthetic Refrigeration Oil, with price, sales quantity, revenue, and global market share of Synthetic Refrigeration Oil from 2021 to 2026.

Chapter 3, the Synthetic Refrigeration Oil competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Synthetic Refrigeration Oil 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 Type and by Application, with sales market share and growth rate by Type, 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 Synthetic Refrigeration Oil market forecast, by regions, by Type, 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 Synthetic Refrigeration Oil.

Chapter 14 and 15, to describe Synthetic Refrigeration Oil sales channel, distributors, customers, research findings and conclusion.

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