

# Global Synthetic Refrigeration Oil Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Synthetic Refrigeration Oil market size is expected to reach \$ 2081 million by 2032, rising at a market growth of 4.1% CAGR during the forecast period (2026-2032). 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.

This report studies the global Synthetic Refrigeration Oil production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Synthetic Refrigeration Oil and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Synthetic Refrigeration Oil that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Synthetic Refrigeration Oil total production and demand, 2021-2032, (Kilotons)

Global Synthetic Refrigeration Oil total production value, 2021-2032, (USD Million)

Global Synthetic Refrigeration Oil production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global Synthetic Refrigeration Oil consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: Synthetic Refrigeration Oil domestic production, consumption, key domestic manufacturers and share

Global Synthetic Refrigeration Oil production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global Synthetic Refrigeration Oil production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Synthetic Refrigeration Oil production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Synthetic Refrigeration Oil market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Synthetic Refrigeration Oil market

**Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) and average price (US\$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Synthetic Refrigeration Oil Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Synthetic Refrigeration Oil Market, Segmentation by Type:

Synthetic Oils for HCFCs

Synthetic Oils for HFCs

Global Synthetic Refrigeration Oil Market, Segmentation by Chemical Composition:

Polyol Ester Oil

Polyalkylene Glycol Oil

Alkylbenzene Oil

Polyester Oil

Others

#### Global Synthetic Refrigeration Oil Market, Segmentation by Viscosity Grade:

Low Viscosity Synthetic Oils

Medium Viscosity Synthetic Oils

High Viscosity Synthetic Oils

#### Global Synthetic Refrigeration Oil Market, Segmentation by Application:

Air Conditioning

Refrigeration Compressor

Others

#### **Companies Profiled:**

Mobil

Shell

BASF

FUCHS

Hoffman

KALEN INTERNATIONAL

Sinopec

Anhui Zhongtian Petrochemical

MENIC

HUIFENG

Kroneseder.Jama

Synnex

CNPC

**Key Questions Answered:**

1. How big is the global Synthetic Refrigeration Oil market?
2. What is the demand of the global Synthetic Refrigeration Oil market?
3. What is the year over year growth of the global Synthetic Refrigeration Oil market?
4. What is the production and production value of the global Synthetic Refrigeration Oil market?
5. Who are the key producers in the global Synthetic Refrigeration Oil market?
6. What are the growth factors driving the market demand?

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