

Synthetic Ester Lubricants for Electrical and Electronics Market Size and Forecast (2021 - 2031), Global and Regional Share, Trend, and Growth Opportunity Analysis Report Coverage: By Product Type (Gear Oil, Transformer Oil, Immersion Cooling Fluids, Refrigeration Oil, Grease, Metalworking Fluids, and Others) and End Use (General Air Conditioners, Automotive Air Conditioners, Refrigerators, and Others)

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Abstracts

The synthetic ester lubricants for electrical and electronics market size was valued at US\$ \$ 95.59 million in 2024 and is expected to reach US\$ 145.99 million by 2031; it is estimated to register a CAGR of 6.4% from 2025 to 2031.

The rapid growth of renewable energy installations such as wind turbines, solar farms, and smart grid infrastructure requires lubricants capable of withstanding variable load, temperature, and environmental conditions. Synthetic esters' excellent cold flow, thermal stability, and electrical insulation properties make them suitable for use in renewable energy components like generators and transformers. According to the International Energy Agency (IEA), global renewable electricity capacity is projected to surge significantly by 2030, necessitating high-performance lubricants that reduce downtime and maintenance costs. Non-profit environmental organizations also emphasize lubricant sustainability in clean energy equipment to reduce ecosystem impacts. Expansion in electrical infrastructure, smart meters, and precision electronics globally further intensifies lubricant demand, driving synthetic ester deployment in the electrical and electronics sectors.

In terms of product type, the market is segmented into gear oil, transformer oil, immersion cooling fluids, refrigeration oil, grease, metalworking fluids, and others. The transformer oil segment accounted for the largest synthetic ester lubricants for electrical and electronics market share in 2024. Transmission oils formulated with ester-based synthetic lubricants are favored due to the demand for high-performance, energy-efficient, and environmentally sustainable transmission systems. Esters offer thermal and oxidative stability, a high viscosity index, and low volatility. These are critical for smooth gear shifting, reducing frictional losses, and protecting transmission components across various operating temperatures and loads. In automatic transmissions, ester-based fluids maintain consistent performance, prevent sludge formation, and minimize varnish buildup, extending transmission life and service intervals. Their superior lubricity and polarity deliver strong film strength and wear protection, particularly in continuously variable transmissions (CVTs) and dual-clutch transmissions (DCTs), supporting advanced transmission technologies and improved vehicle efficiency.

Asia Pacific dominated the synthetic ester lubricants for electrical and electronics market share in terms of revenue in 2024. Asia Pacific represents the world's most dynamic region for electronics manufacturing and electrical equipment production, creating unprecedented demand for advanced synthetic ester lubricants. The region's semiconductor industry, dominated by Taiwan, South Korea, Japan, and China, drives substantial requirements for ultra-pure dielectric fluids and precision lubrication solutions. Government policies across major manufacturing nations actively promote domestic electronics production through comprehensive incentive programs. India's Semiconductor Mission provides up to 50% fiscal support for eligible fabrication and assembly projects, while the Production Linked Incentive scheme offers substantial incentives for mobile manufacturing, IT hardware, semiconductors, and electronic components.

Some of the key players operating in the global synthetic ester lubricants for electrical and electronics market include China Petroleum & Chemical Corp (Sinopec), Exxon Mobil Corp, BP Plc, Chevron Corp, Phillips 66, TotalEnergies SE, Valvoline Inc, ENEOS Corp, Idemitsu Kosan Co Ltd, and Fuchs SE. Players operating in the synthetic ester lubricants for electrical and electronics market focus on providing high-quality products to fulfill customer demand. Also, they are focusing on launching new and high-quality products for their customers.

The overall global synthetic ester lubricants for electrical and electronics market size

has been derived using both primary and secondary sources. To begin the research process, exhaustive secondary research has been conducted using internal and external sources to obtain qualitative and quantitative information related to the synthetic ester lubricants for electrical and electronics market. Also, multiple primary interviews have been conducted with industry participants to validate the data and gain more analytical insights into the topic. The participants of this process include industry experts such as VPs, business development managers, market intelligence managers, and national sales managers—along with external consultants such as valuation experts, research analysts, and key opinion leaders—specializing in the synthetic ester lubricants for electrical and electronics market.

Reason to buy

Save and reduce time carrying out entry-level research by identifying the growth, size, leading players and segments in the global synthetic ester lubricants for electrical and electronics market.

Highlights key business priorities in order to assist companies to realign their business strategies

The key findings and recommendations highlight crucial progressive industry trends in the global synthetic ester lubricants for electrical and electronics market, thereby allowing players across the value chain to develop effective long-term strategies

Develop/modify business expansion plans by using substantial growth offering developed and emerging markets

Scrutinize in-depth global synthetic ester lubricants for electrical and electronics market trends and outlook coupled with the factors driving the market, as well as those hindering it.

Enhance the decision-making process by understanding the strategies that underpin commercial interest with respect to client products, segmentation, pricing and distribution

The List of Companies - Synthetic Ester Lubricants for Electrical and Electronics Market

China Petroleum & Chemical Corp (Sinopec)

Exxon Mobil Corp

BP Plc

Chevron Corp

Phillips 66

TotalEnergies SE

Valvoline Inc

ENEOS Corp

Idemitsu Kosan Co Ltd

Fuchs SE

Cargill, Incorporated

VBASE Oil Company

Environmental Lubricants Manufacturing, Inc.

Lubrita

Functional Products Inc

KLK OLEO

BioBlend Renewable Resources, LLC

Polnox Corporation

JRS PHARMA GmbH + Co. KG

Veedol Lubricants Pty Ltd

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