

# **Synthetic Ester Lubricants for the Telecommunications 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, and Grease), End Use (Data Centers, Telecommunication Infrastructure, and Others), and Geography (North America, Europe, Asia Pacific, Middle East and Africa, and South and Central America)**

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## **Abstracts**

The synthetic ester lubricants for the telecommunications market size is projected to reach US\$ 125.60 million by 2031 from US\$ 79.49 million in 2024. The market is expected to register a CAGR of 6.9% during 2025–2031.

Synthetic ester lubricants for the telecommunications market have gained significant attention in the global market due to the growing demand for high-performance lubricants in the telecommunications sector.

Synthetic ester lubricants are high-performance, biodegradable fluids increasingly adopted in the telecommunications sector as a superior alternative to traditional mineral oils. These lubricants are widely used in power transformers, switchgear, backup generators, and cooling systems for data centers and base stations due to their excellent dielectric strength, high thermal stability, fire resistance, and significantly longer service life. The deployment of 5G networks is accelerating the establishment of

edge micro-data centers, which are smaller, localized computing nodes designed to handle low-latency data processing near end users. These facilities often operate in constrained physical spaces and require thermal management solutions capable of efficiently dissipating heat from densely packed, high-performance electronics. Synthetic ester lubricants, with their high dielectric strength, excellent thermal conductivity, and low viscosity, present a compelling opportunity for use as both insulating and cooling fluids in these environments. Their ability to maintain stable properties under wide temperature ranges ensures consistent heat transfer and protection for sensitive semiconductors, rectifiers, and power distribution modules.

Synthetic esters can deliver superior oxidation resistance, minimizing degradation over time and reducing the frequency of fluid replacement. This aligns with the operational objectives of edge data centers, where limited footprint and challenging accessibility make maintenance more complex.

Their environmental compatibility and biodegradability support sustainability initiatives increasingly emphasized in telecom infrastructure planning. As network operators continue to deploy edge computing nodes to support 5G applications, including autonomous vehicles, augmented reality, and IoT devices, the demand for high-performance thermal fluids that combine electrical safety with efficient cooling is expected to grow, creating a strategic avenue for synthetic ester adoption in next-generation telecom facilities.

Some of the key players operating in the synthetic ester lubricants for the telecommunications market include China Petroleum & Chemical Corp (Sinopec), Exxon Mobil Corp, BP Plc, Chevron Corp, AMSOIL Inc, Phillips 66, TotalEnergies SE, Valvoline Inc, Fuchs SE, and Repsol SA. Players operating in the synthetic ester lubricants for the telecommunications market focus on providing innovative products at affordable prices to fulfill customer demand.

Primary and secondary sources have derived the overall synthetic ester lubricants for the telecommunications market size. 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 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 the telecommunications market.

### **Reason to buy**

Saves and reduces time required for identifying the market growth, size, leading players, and segments in the global Synthetic Ester Lubricants for the Telecommunications market.

Highlights key business priorities to assist companies in realigning their business strategies

Emphasizes key findings and recommendations that uncover emerging industry trends in the global Synthetic Ester Lubricants for the Telecommunications market, enabling stakeholders across the value chain to craft effective long-term strategies

Develop/modify business expansion plans by analyzing substantial growth prospects in mature and emerging markets

Scrutinizes in-depth global Synthetic Ester Lubricants for the Telecommunications market trends, along with factors driving the market, as well as those hindering it

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

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