

Non-Grain Oriented Electrical Steel (NGOES) Market Size and Forecast (2021 - 2033), Global and Regional Share, Trend, and Growth Opportunity Analysis Report Coverage: By Grade (Premium Grade, High Grade, and General or Standard Grade) and Application (Automotive [Traction Motors, EPS Motors, Alternators, and Others], Home Appliances [Induction Motors, Compressors, and Others], General Industrial, and Others)

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Abstracts

The non-grain oriented electrical steel (NGOES) market size was valued at US\$ 17.13 billion in 2024 and is expected to reach US\$ 25.92 billion by 2033; it is estimated to register a CAGR of 4.7% from 2025 to 2033.

The Non-Grain Oriented Electrical Steel (NGOES) market growth is driven by the growing need for high-efficiency electromagnetic cores in electric motors and generators. The low core loss and high magnetic permeability of the material are crucial to the optimization of the energy conversion efficiency and reducing the wasted energy as heat, particularly in variable-speed and high-frequency applications where the loss is even a significant performance factor. The global electrification wave, such as the rampant increase in the number of electric vehicles (EVs), renewable energy infrastructure development, and an increase in the global energy efficiency requirement of industrial motors and appliances, is accelerating demand. With the industries and consumers focusing on ensuring that their products are sustainable, perform better, and have a lower cost of ownership, NGOES are still a valued constituent in the production of smaller, lighter, and more reliable electromagnetic products that are imperative in a

competitive and energy-sensitive industrial environment.

The non-grain oriented electrical steel (NGOES) market analysis has been performed by considering the following segments: grade and application. By grade, the non-grain oriented electrical steel (NGOES) market is segmented into premium grade, high grade, and general or standard grade. The high-grade segment accounted for the largest non-grain oriented electrical steel (NGOES) market share in 2024. Its benefit is that its low core loss and high magnetic permeability make this premium material attractive to high-performance generators, high-frequency, high-speed, and high-efficiency power applications, including EV traction motors, cutting-edge industrial drives, and high-performance generators. The high metallurgical consistency and alloying provide unsurpassed electromagnetic efficiency, allowing the design of the motor to run at higher frequencies and power densities without overheating the product and wasting energy. The reason is that its capacity to remain at its best when subjected to thermal and mechanical stress, and its high level of magnetic responsive, are essential in next-generation electrification. The high-grade NGOES is extensively used by major automotive OEMs and manufacturers of high-quality industrial and renewable energy systems, and is the most successful in the NGOES market to provide the cutting-edge, efficiency-critical applications.

The non-grain oriented electrical steel (NGOES) market is segmented into five main regions—North America, Europe, Asia Pacific, the Middle East & Africa, and South & Central America. North America is expected to register the fastest CAGR in the global non-grain oriented electrical steel (NGOES) market from 2025 to 2033. The non-grain oriented electrical steel (NGOES) market in North America is poised for significant growth, driven by the region's accelerating shift toward electric vehicle adoption—with the US and Mexico emerging as key hubs for automotive gigafactories requiring high-efficiency steel for motors—alongside the concurrent expansion of renewable energy infrastructure and the reshoring of industrial manufacturing, all of which demand NGOES for transformers, inverters, and automation systems; this landscape is further shaped by stringent energy regulations and ambitious climate goals, particularly in the US, where legislation like the Inflation Reduction Act incentivizes domestic production and the use of high-performance materials to improve efficiency across appliances and grid components, and as the region works to secure its supply chain, this combination of technological innovation, supportive industrial policy, and robust demand solidifies North America's position as a critical hub for NGOES consumption and a key contributor to the global market's evolution.

Some of the key players operating in the global non-grain oriented electrical steel

(NGOES) market include Nippon Steel Corp, JFE Steel Corp, Posco Holdings Inc, Baosteel Group Corp, ArcelorMittal SA, Novolipetsk Steel, Tata Steel Ltd, Cleveland-Cliffs Inc, ThyssenKrupp AG, Arnold Magnetic Technologies, Voestalpine AG, C.D. W?lzholz GmbH & Co. KG, United States Steel Corp, and China Steel Corp. Players operating in the non-grain oriented electrical steel (NGOES) 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 non-grain oriented electrical steel (NGOES) 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 non-grain oriented electrical steel (NGOES) 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 non-grain oriented electrical steel (NGOES) market.

Reason to buy

Saves and reduces time required for identifying the market growth, size, leading players, and segments in the global Non-Grain Oriented Electrical Steel (NGOES) 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 Non-Grain Oriented Electrical Steel (NGOES) 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 Non-Grain Oriented Electrical Steel (NGOES) 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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