

# Global Silicon Steel Grade Magnesium Oxide Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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## Abstracts

According to our (Global Info Research) latest study, the global Silicon Steel Grade Magnesium Oxide market size was valued at USD 119.2 million in 2023 and is forecast to a readjusted size of USD 148.4 million by 2030 with a CAGR of 3.2% during review period.

Grain oriented electrical steels (GOES) are iron-silicon alloys that were developed to provide the low core loss and high permeability required for efficient and economical electrical transformers. GOES is the most energy efficient electrical steel and used in transformers where energy conservation is critical. High-purity active magnesium oxide is used to form insulating “glass” layer of oriented grain on silicon steel (transformer steel) surface and give special electromagnetic properties to steel. This is achieved by coating steel surface with aqueous slurry of magnesium oxide which reacts with silicon on steel surface during high-temperature annealing until transparent layer of magnesium silicate. Magnesium oxide shall have a high degree of purity and contain very low level of elements such as chlorine, bromine, calcium, fluorine and sodium which can form an unacceptably high electrical conductivity of insulating layer. Magnesium oxide shall also have a very small particle size to obtain slurry which is stable and has desired characteristics of coating.

Global key players of silicon steel grade magnesium oxide include Shanxi Yinsheng Technology, Tateho Chemical, ICL-IP, etc. The top three players hold a share about 48%. China is the largest producer, has a share about 64%, followed by Europe and Japan, with share 17% and 9%, respectively. The largest market is Asia-Pacific, with a share about 69%, followed by Europe and North America, with share 21% and 7%, separately.

The Global Info Research report includes an overview of the development of the Silicon Steel Grade Magnesium Oxide industry chain, the market status of High Magnetic Strength Electrical Steel (0.98, 0.99), Conventional Electrical Steel (0.98, 0.99), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Silicon Steel Grade Magnesium Oxide.

Regionally, the report analyzes the Silicon Steel Grade Magnesium Oxide markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Silicon Steel Grade Magnesium Oxide market, with robust domestic demand, supportive policies, and a strong manufacturing base.

#### Key Features:

The report presents comprehensive understanding of the Silicon Steel Grade Magnesium Oxide market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Silicon Steel Grade Magnesium Oxide industry.

The report involves analyzing the market at a macro level:

**Market Sizing and Segmentation:** Report collect data on the overall market size, including the sales quantity (MT), revenue generated, and market share of different by Purity (e.g., 0.98, 0.99).

**Industry Analysis:** Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Silicon Steel Grade Magnesium Oxide market.

**Regional Analysis:** The report involves examining the Silicon Steel Grade Magnesium Oxide market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

**Market Projections:** Report covers the gathered data and analysis to make future

projections and forecasts for the Silicon Steel Grade Magnesium Oxide market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Silicon Steel Grade Magnesium Oxide:

**Company Analysis:** Report covers individual Silicon Steel Grade Magnesium Oxide manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

**Consumer Analysis:** Report covers data on consumer behaviour, preferences, and attitudes towards Silicon Steel Grade Magnesium Oxide. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (High Magnetic Strength Electrical Steel, Conventional Electrical Steel).

**Technology Analysis:** Report covers specific technologies relevant to Silicon Steel Grade Magnesium Oxide. It assesses the current state, advancements, and potential future developments in Silicon Steel Grade Magnesium Oxide areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Silicon Steel Grade Magnesium Oxide market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

**Market Validation:** The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

## Market Segmentation

Silicon Steel Grade Magnesium Oxide market is split by Purity and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Purity, and by Application in terms of volume and value.

### Market segment by Purity

0.98

0.99

#### Market segment by Application

High Magnetic Strength Electrical Steel

Conventional Electrical Steel

#### Major players covered

Tateho Chemical

Shanxi Yinsheng Technology

ICL-IP

Shanghai SIIC Zhentai Chemical

Meishen Technology

JSC Kaustik

Martin Marietta Magnesia Specialties

#### 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 Silicon Steel Grade Magnesium Oxide product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Silicon Steel Grade Magnesium Oxide, with price, sales, revenue and global market share of Silicon Steel Grade Magnesium Oxide from 2019 to 2024.

Chapter 3, the Silicon Steel Grade Magnesium Oxide competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Silicon Steel Grade Magnesium Oxide breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Purity and application, with sales market share and growth rate by purity, application, from 2019 to 2030.

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 2017 to 2023. and Silicon Steel Grade Magnesium Oxide market forecast, by regions, purity and application, with sales and revenue, from 2025 to 2030.

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 Silicon Steel Grade Magnesium Oxide.

Chapter 14 and 15, to describe Silicon Steel Grade Magnesium Oxide sales channel, distributors, customers, research findings and conclusion.

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