

Sintered Steel Market by Type (Stainless Steel, Carbon Steel, Alloy Steel, Tool Steel), Process (Metal Injection Moulding, Additive Manufacturing, Conventional Manufacturing), End-Use, Application, & Region - Global Forecast 2028

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Abstracts

The global Sintered Steel Market size is estimated to be USD 24.4 billion in 2023 and is projected to reach USD 29.5 billion by 2028, at a CAGR of 3.9% between 2023 and 2028. The sintered steel market encompasses the worldwide industry involved in the manufacturing, distribution, and trade of sintered steel products. Sintering is a production process that involves compacting and shaping powdered materials at high temperatures and pressures, without completely melting them. Sintered steel, produced through this method, is characterized by its strength, wear resistance, and dimensional accuracy. It finds applications in diverse sectors such as automotive, aerospace, machinery, power generation, and consumer goods. Popular sintered steel products include gears, bearings, pistons, engine components, cutting tools, and various parts for appliances and electronics.

The growth and dynamics of the sintered steel market are influenced by factors such as industrial expansion, technological advancements, and demand from end-use industries. The market is primarily driven by the demand for lightweight and cost-effective materials, the increasing need for high-performance components, and the growing environmental concerns. It is a competitive market, with numerous global manufacturers and suppliers.

The future prospects for the sintered steel market remain positive due to its inherent advantages over traditional materials, ongoing research and development activities, and the continuous growth of end-use sectors. However, the market dynamics can be

influenced by factors such as fluctuating prices of raw materials, regulatory changes, and the emergence of alternative materials.

“Electrical Sector to be the fastest growing end-use sector during the forecast period”

Sintered steel is crucial in the electrical industry due to its unique properties and diverse applications. It provides reliable electrical connections with its excellent conductivity and endurance. Its superior magnetic qualities make it an ideal core material for transformers and inductors, ensuring efficient energy transfer. Sintered steel is used in special electric motors, electromagnetic device cores, and electronic components, offering high permeability, low magnetic coactivity, and suitable hardness and ductility for machine vibrations. It finds application in electrical motor components, electronic devices, appliances, and household equipment, providing strength and dimensional stability. Sintered steel is also utilized in electrical switches and circuit breakers, offering durability and reliability. Overall, the versatility and reliability of sintered steel make it indispensable in the electrical sector, supporting the efficient operation of various electrical devices and systems.

“The Engines Segment is projected to be the largest growing Application segment in Sintered steel Market”

Sintered steel is integral to engines, providing various applications and significant advantages. It is widely used in the manufacturing of engine components such as pulleys, gears, camshafts, sprockets, crankshafts, and valve train parts. By offering exceptional strength, wear resistance, and durability, sintered steel ensures optimal engine performance and efficient power transmission. Its dimensional accuracy and reliability contribute to smooth and effective engine operation. Sintered steel is a critical component in the automotive industry, enhancing engine effectiveness, reducing weight, improving fuel efficiency, and prolonging component lifespan.

“APAC accounts for the largest share in Sintered steel Market by region”

In 2022, APAC held the largest market share in the Sintered steel Market, followed by North America and Europe. Emerging economies like India and China are projected to drive demand due to the growth of the automotive and electrical industries. The market is expected to expand further due to rapid economic growth and government initiatives promoting sustainable manufacturing solutions. APAC is the fastest-growing region economically and in terms of population. It accounted for a significant portion of global GDP and GDP growth in the past decade. The region's large population creates a

substantial customer base for automotive, industrial, electrical and construction end-use sectors, driving the growth of the sintered steel market.

Extensive primary interviews were conducted to determine and verify the market size for several segments and sub-segments and information gathered through secondary research.

The break-up of primary interviews is given below:

By Company Type - Tier 1 – 30%, Tier 2 – 50%, and Tier 3 – 20%

By Designation – C level Executives – 40%, Director level – 20%, and Others* – 40%

By Region – North America – 20%, Asia Pacific – 40%, Europe – 20%, South America – 15%, and Middle East & Africa – 5%.

Notes: *Others include sales, marketing, and product managers.

Notes: Tier 1: >USD 5 Billion; Tier 2: USD 1 Billion– USD 5 Billion; and Tier 3:

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