

Global Stainless Steel Powder Market Size Study & Forecast, by Type (Austenitic, Martensitic, Duplex, Ferritic, Precipitation-Hardening), Manufacturing Process, by Application (Powder Metallurgy, Additive Manufacturing) and Regional Forecasts 2025-2035

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Abstracts

The Global Stainless Steel Powder Market is valued at approximately USD 0.82 billion in 2024, supported by historical data from 2023 and 2024, and is projected to expand at a steady CAGR of 4.20% throughout the forecast period of 2025–2035. Stainless steel powder represents a finely atomized metallic material engineered to deliver consistent chemical composition, corrosion resistance, and mechanical integrity across a wide range of industrial processes. It has increasingly become a cornerstone material for advanced manufacturing routes such as powder metallurgy, metal injection molding, and additive manufacturing, where precision, repeatability, and material efficiency are mission-critical. Market growth is being carried forward by the rising need for lightweight yet durable components, coupled with the accelerating adoption of near-net-shape manufacturing technologies.

As industries continue to retool their production lines around efficiency and sustainability, stainless steel powder is being leaned into as a strategic enabler rather than a mere raw material. Automotive, aerospace, medical, and industrial machinery manufacturers are scaling up their reliance on powder-based fabrication methods to cut down material wastage and tighten dimensional tolerances. Simultaneously, advances in powder production techniques—such as gas and water atomization—are improving particle morphology and flow characteristics, thereby broadening the application envelope. While pricing volatility of raw stainless steel and energy-intensive manufacturing processes remain notable challenges, long-term demand fundamentals remain firmly intact over the 2025–2035 horizon.

The detailed segments and sub-segments included in the report are:**By Type:**

Austenitic

Martensitic

Duplex

Ferritic

Precipitation-Hardening

By Manufacturing Process:

Gas Atomization

Water Atomization

Plasma Atomization

Other Processes

By Application:

Powder Metallurgy

Metal Injection Molding

Additive Manufacturing

Other Processes

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

Rest of Europe

Asia Pacific

China

India

Japan

Australia

South Korea

Rest of Asia Pacific

Latin America

Brazil

Mexico

Middle East & Africa

UAE

Saudi Arabia

South Africa

Rest of Middle East & Africa

Among the various material categories, austenitic stainless steel powder is expected to dominate the market over the forecast period. This dominance is underpinned by its superior corrosion resistance, excellent formability, and wide usability across structural and functional applications. Austenitic grades continue to be the preferred choice for powder metallurgy and additive manufacturing processes, where mechanical consistency and resistance to thermal fatigue are paramount. Although duplex and precipitation-hardening grades are gaining momentum in high-performance applications, austenitic powders remain the market's anchor segment by volume and adoption.

From a revenue contribution perspective, additive manufacturing currently leads the Global Stainless Steel Powder Market. The rapid industrialization of metal 3D printing has pulled through strong demand for high-purity, tightly controlled stainless steel powders capable of delivering complex geometries and repeatable performance. Aerospace components, medical implants, and customized industrial parts have increasingly shifted toward additive routes, allowing this application segment to command premium pricing. Meanwhile, powder metallurgy continues to provide a stable revenue base, particularly in high-volume automotive and industrial component manufacturing.

The key regions considered for the Global Stainless Steel Powder Market include Asia Pacific, North America, Europe, Latin America, and the Middle East & Africa. Asia Pacific emerged as the leading regional market in 2025, driven by expanding

manufacturing ecosystems, strong automotive output, and rising investments in additive manufacturing across China, Japan, and South Korea. North America follows closely, supported by advanced R&D capabilities and early adoption of metal 3D printing technologies. Europe maintains a solid foothold due to its strong industrial engineering base, while demand in the Middle East & Africa is gradually building on the back of infrastructure development and localized manufacturing initiatives.

Major market players included in this report are:

H?gan?s AB

Sandvik AB

Carpenter Technology Corporation

GKN Powder Metallurgy

Allegheny Technologies Incorporated

Erasteel

AMETEK Specialty Metal Products

Aubert & Duval

Metal Powder Products, LLC

CNPC Powder Material

Kymera International

Epson Atmix Corporation

Liberty Powder Metals

Praxair Surface Technologies

Voestalpine AG

Global Stainless Steel Powder Market Report Scope:

Historical Data – 2023, 2024

Base Year for Estimation – 2024

Forecast period - 2025-2035

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent to up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define the market sizes of different segments and countries in recent years and to forecast their values for the coming years, with 2024 serving as the base year for estimation. The report integrates qualitative industry insights with quantitative market modeling to map out growth trajectories across regions. It also delivers a detailed assessment of key drivers, structural constraints, and emerging opportunities, alongside an in-depth analysis of competitive positioning and product strategies adopted by leading market participants.

Key Takeaways:

Market estimates and forecasts spanning a 10-year period from 2025 to 2035.

Annualized revenue analysis at global, regional, and segment levels.

Detailed geographical insights supported by country-level evaluation.

Comprehensive competitive landscape profiling major industry participants.

Strategic assessment of business models and future market entry approaches.

Integrated demand-side and supply-side analysis of the market.

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