

Steel Powder Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 - 2034

Market Reprt | 2024-12-18 | 310 pages | Global Market Insights

AVAILABLE LICENSES:

- Single User \$4850.00
- Multi User \$6050.00
- Enterprise User \$8350.00

Report description:

The Global Steel Powder Market reached a valuation of USD 5.2 billion in 2024 and is projected to expand at a CAGR of 6.1% from 2025 to 2034. Steel powder plays a crucial role in industries requiring high-performance materials, offering key benefits like precision, durability, and efficiency. As demand for advanced manufacturing processes continues to rise across various sectors, the steel powder market is witnessing significant expansion. This growth is attributed to the increasing adoption of steel powders in applications such as additive manufacturing, automotive, aerospace, and electronics, where high-quality components with intricate details are essential. Moreover, steel powder is a vital component in producing lighter, energy-efficient solutions and is a key enabler of innovations in these industries.

The market is primarily divided by particle size into fine steel powder and coarse steel powder, each serving distinct needs in manufacturing processes. In 2024, fine steel powder held a dominant share of the market, valued at USD 3.2 billion. The growing demand for fine steel powder is driven by its ability to provide high precision, better surface area, and improved sintering properties, making it ideal for the production of intricate parts. Industries such as electronics, metallurgy, and additive manufacturing have increasingly turned to fine steel powder for its ability to produce complex components with fine details and smoother finishes, which are crucial for meeting the exacting demands of these sectors.

The steel powder market is also segmented by steel type, including carbon steel powder, stainless steel powder, alloy steel powder, and tool steel powder. Among these, stainless steel powder held a 35.4% market share in 2024 and is expected to see robust growth through 2034. Known for its corrosion resistance, durability, and strength, stainless steel powder is a go-to choice in sectors such as automotive, aerospace, and construction. Its ability to perform well in demanding environments has made it an essential material for producing reliable and long-lasting components.

Regarding production methods, the reduction technique dominated the market in 2024, accounting for 50.9% of the share. This method involves melting steel and transforming it into fine particles, offering precise control over particle size and composition. It

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

is highly valued for its efficiency, producing uniform and high-quality powders ideal for industries like automotive and aerospace, where consistency is key.

In the U.S., the steel powder market generated substantial revenue in 2024, driven by the growing automotive, aerospace, and construction sectors. The demand for advanced manufacturing and additive manufacturing is propelling the use of steel powders in these industries. Furthermore, technological advancements in powder production techniques are enhancing the quality of steel powders and expanding their potential applications, contributing to the ongoing growth of the market. As industries continue to seek lightweight and energy-efficient solutions, steel powder plays a crucial role in meeting these evolving demands.

Table of Contents:

Report Content

Chapter 1 Methodology & Scope

1.1 Market scope & definition

1.2 Base estimates & calculations

1.3 Forecast calculation

1.4 Data sources

1.4.1 Primary

1.4.2 Secondary

1.4.2.1 Paid sources

1.4.2.2 Public sources

Chapter 2 Executive Summary

2.1 Industry synopsis, 2021-2034

Chapter 3 Industry Insights

3.1 Industry ecosystem analysis

3.1.1 Factor affecting the value chain

3.1.2 Profit margin analysis

3.1.3 Disruptions

3.1.4 Future outlook

3.1.5 Manufacturers

3.1.6 Distributors

3.2 Supplier landscape

3.3 Profit margin analysis

3.4 Key news & initiatives

3.5 Regulatory landscape

3.6 Impact forces

3.6.1 Growth drivers

3.6.1.1 Growing demand for lightweight and high-strength materials in automotive and aerospace industries

3.6.1.2 Advancements in technology for improved steel powder production methods

3.6.1.3 Increased application scope in construction, industrial machinery, and electronics sectors

3.6.2 Industry pitfalls & challenges

3.6.2.1 Challenges related to achieving consistent quality and purity in steel powder production

3.6.2.2 Environmental concerns and regulations associated with the manufacturing process

3.7 Growth potential analysis

3.8 Porter's analysis

3.9 PESTEL analysis

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

Chapter 4 Competitive Landscape, 2024

4.1 Introduction

4.2 Company market share analysis

4.3 Competitive positioning matrix

4.4 Strategic outlook matrix

Chapter 5 Market Size and Forecast, By Particle Size, 2021-2034 (USD Billion, Kilo Tons)

5.1 Key trends

5.2 Fine steel powder

5.3 Coarse steel powder

Chapter 6 Market Size and Forecast, By Type, 2021-2034 (USD Billion, Kilo Tons)

6.1 Key trends

6.2 Stainless steel powder

6.3 Alloy steel powder

6.4 Carbon steel powder

6.5 Tool steel powder

Chapter 7 Market Size and Forecast, By Production Method, 2021-2034 (USD Billion, Kilo Tons)

7.1 Key trends

7.2 Reduction method

7.3 Atomization

7.4 Electrolysis

Chapter 8 Market Size and Forecast, By Application, 2021-2034 (USD Billion, Kilo Tons)

8.1 Key trends

8.2 Automotive industry

8.3 Aerospace and defense

8.4 Construction and infrastructure

8.5 Industrial machinery

8.6 Electronics

8.7 Medical and healthcare

Chapter 9 Market Size and Forecast, By Region, 2021-2034 (USD Billion, Kilo Tons)

9.1 Key trends

9.2 North America

9.2.1 U.S.

9.2.2 Canada

9.3 Europe

9.3.1 UK

9.3.2 Germany

9.3.3 France

9.3.4 Italy

9.3.5 Spain

9.3.6 Russia

9.4 Asia Pacific

9.4.1 China

9.4.2 India

9.4.3 Japan

9.4.4 South Korea

9.4.5 Australia

9.5 Latin America

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

9.5.1 Brazil

9.5.2 Mexico

9.6 MEA

9.6.1 South Africa

9.6.2 Saudi Arabia

9.6.3 UAE

Chapter 10 Company Profiles

10.1 AMETEK Specialty Metal Products

10.2 ATI Materials

10.3 Carpenter Technology

10.4 CNPC Powder

10.5 Erasteel

10.6 GKN Powder Metallurgy

10.7 Hoganas

10.8 Kennametal

10.9 Rio Tinto Metal Powders

10.10 Sandvik

10.11 Voestalpine

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

Steel Powder Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 - 2034

Market Reprt | 2024-12-18 | 310 pages | Global Market Insights

To place an Order with Scotts International:

- Print this form
- Complete the relevant blank fields and sign
- Send as a scanned email to support@scotts-international.com

ORDER FORM:

Select license	License	Price
	Single User	\$4850.00
	Multi User	\$6050.00
	Enterprise User	\$8350.00
		VAT
		Total

*Please circle the relevant license option. For any questions please contact support@scotts-international.com or 0048 603 394 346.

** VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

Email*	<input type="text"/>	Phone*	<input type="text"/>
First Name*	<input type="text"/>	Last Name*	<input type="text"/>
Job title*	<input type="text"/>		
Company Name*	<input type="text"/>	EU Vat / Tax ID / NIP number*	<input type="text"/>
Address*	<input type="text"/>	City*	<input type="text"/>
Zip Code*	<input type="text"/>	Country*	<input type="text"/>
		Date	<input type="text" value="2026-03-05"/>
		Signature	

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

