

Europe Iron Powder Market Forecast to 2030 - Regional Analysis - by Type (Reduced, Atomized, and Electrolytic), Manufacturing Process [Physical (Atomization and Electro Deposition), Chemical (Reduction and Decomposition), and Mechanical], Grade (? 99.0% and ? 99.1%), and End-Use Industry [Paints and Coatings, Additive Manufacturing, Medical, Soft Magnetic Products, Metallurgy (Compound Brazing, Compound Sintering, Compound Welding, and Others), and Others]

<https://marketpublishers.com/r/E598013FA17EEN.html>

Date: May 2024

Pages: 123

Price: US\$ 3,550.00 (Single User License)

ID: E598013FA17EEN

Abstracts

The Europe iron powder market was valued at US\$ 502.41 million in 2022 and is expected to reach US\$ 810.16 million by 2030; it is estimated to register a CAGR of 6.2% from 2022 to 2030.

Flourishment of Automotive Industry Boosts Europe Iron Powder Market

The automotive industry heavily relies on iron powder as it is a fundamental raw material in the field of powder metallurgy. This manufacturing process involves shaping and sintering metal powders to create intricate parts. Automotive manufacturers increasingly turn to powder metallurgy for the production of components such as gears, bearings, and bushings, as it offers cost-effective, precise, and resource-efficient manufacturing solutions. In addition, in recent years, the automotive sector has heavily invested in reducing the weight of vehicles to enhance fuel efficiency and reduce emissions. Iron powder, when integrated into metal matrix composites and other

advanced materials, can contribute to the development of lightweight components that maintain structural integrity. These components are integral to achieving the industry's lightweight objectives, resulting in more fuel-efficient vehicles and a reduced carbon footprint.

As the automotive industry experiences a transformative shift toward electric vehicles (EVs), iron powder's role becomes even more crucial. Electric motors used in EVs often rely on iron powder for the production of soft magnetic cores, which are essential for the motors' efficiency and performance. According to the International Energy Agency's annual Global Electric Vehicle Outlook, over 10 million electric cars were sold worldwide in 2022, and sales are projected to grow by another 35% in 2023 to reach 14 million. In addition, Volvo Cars has announced a third manufacturing plant in Kosice, Slovakia. The plant will help the company to meet the continued demand of its electric vehicles and capture future growth potential. With the global push for electrification, the demand for iron powder as a core material in EV components has grown substantially. This growing demand from the automotive parts industry drives the Europe iron powder market expansion. Its pivotal role in powder metallurgy, and involvement in EV technologies contribute to its growth. As the automotive parts sector continues to evolve and innovate, iron powder is poised to remain a fundamental material for the production of high-quality, efficient, and environmentally responsible automotive components.

Europe Iron Powder Market Overview

The Europe iron powder market is segmented into Germany, France, Italy, the UK, Russia, and the Rest of Europe. The Europe iron powder market is a significant segment of the global metal powder industry, which plays a crucial role in various sectors, including automotive, construction, manufacturing, and electronics. In Europe, automotive manufacturers use iron powder in the production of components such as brake pads and clutch plates, benefiting from its high strength and cost-effectiveness. In addition, iron powder is also utilized to manufacture sintered parts in the automotive industry. For instance, more than 200,000 metric ton of sintered components have been produced in Europe in recent years.

The demand for advanced surface coating technologies is continually progressing in major end-use industries such as steel, aerospace, oil & gas, and power. Iron powder is also utilized in the metallurgy sector in the manufacturing of several products and coating applications. Moreover, according to the European Commission, the construction sector is crucial to the EU economy. The industry provides 18 million direct jobs and contributes to ~9% of the region's GDP. Thus, the surge in the application of

iron powder in diamond tools, welding, 3D printing, and others, coupled with the growth in the construction sector, is anticipated to create demand for iron powder in Europe.

The construction industry has also embraced iron powder for its role in producing high-strength concrete, enhancing structural integrity. The growing trend toward additive manufacturing has driven the use of iron powder in 3D printing processes, further boosting market expansion. Iron powder has gained prominence in the additive manufacturing sector. European companies are exploring its use in 3D printing processes to create intricate and high-strength components, particularly in aerospace and medical device manufacturing. However, environmental concerns and stringent regulations regarding emissions and waste disposal are pushing manufacturers to adopt more sustainable and efficient production methods. Fluctuations in raw material prices also impact the market, as iron ore prices can be volatile.

Europe Iron Powder Market Revenue and Forecast to 2030 (US\$ Million)

Europe Iron Powder Market Segmentation

The Europe iron powder market is categorized into type, grade, manufacturing process, end-use industry, and country.

Based on type, the Europe iron powder market is segmented into reduced, atomized, and electrolytic. The atomized segment held the largest market share in 2022.

In terms of grade, the Europe iron powder market is bifurcated into ? 99.0% and ? 99.1%. The ? 99.0% segment held a larger market share in 2022.

By manufacturing process, the Europe iron powder market is categorized into physical, chemical, and mechanical. The physical segment held the largest market share in 2022. Furthermore, the physical segment is further subsegmented into atomization and electro deposition. Additionally, the chemical segment is further subsegmented into reduction and decomposition.

Based on end-use industry, the Europe iron powder market is segmented into paints and coatings, additive manufacturing, medical, soft magnetic products, metallurgy, and others. The metallurgy segment held the largest market share in 2022. Furthermore, the metallurgy segment is further subsegmented into compound brazing, compound sintering, compound welding, and others.

By country, the Europe iron powder market is segmented into Germany, France, Italy, the UK, Russia, and the Rest of Europe. Germany dominated the Europe iron powder market share in 2022.

Rio Tinto Metal Powders, American Elements Inc, Industrial Metal Powders (India) Pvt Ltd, CNPC Powder North America Inc, Ashland Inc, BASF SE, Hoganas AB, Reade International Corp, and Kobe Steel Ltd are among the leading companies operating in the Europe iron powder market.

Contents

1. INTRODUCTION

- 1.1 The Insight Partners Research Report Guidance
- 1.2 Market Segmentation

2. EXECUTIVE SUMMARY

- 2.1 Key Insights
- 2.2 Market Attractiveness

3. RESEARCH METHODOLOGY

- 3.1 Coverage
- 3.2 Secondary Research
- 3.3 Primary Research

4. EUROPE IRON POWDER MARKET LANDSCAPE

- 4.1 Overview
- 4.2 Porter's Five Forces Analysis
 - 4.2.1 Bargaining Power of Suppliers
 - 4.2.2 Bargaining Power of Buyers
 - 4.2.3 Threat of New Entrants
 - 4.2.4 Intensity of Competitive Rivalry
 - 4.2.5 Threat of Substitutes
- 4.3 Ecosystem Analysis
 - 4.3.1 Raw Material Suppliers
 - 4.3.2 Manufacturers
 - 4.3.3 Distributors/Suppliers
 - 4.3.4 End Users
 - 4.3.5 List of Vendors in the Value Chain:

5. EUROPE IRON POWDER MARKET - KEY MARKET DYNAMICS

- 5.1 Market Drivers
 - 5.1.1 Flourishment of Automotive Industry
 - 5.1.2 Rising Demand from the Electronics Industry

5.2 Market Restraints

5.2.1 Volatility in Raw Material Prices

5.3 Market Opportunities

5.3.1 Growing Demand for Additive Manufacturing

5.4 Future Trends

5.4.1 Sustainable and Eco-Friendly Manufacturing Practices

5.5 Impact Analysis

6. EUROPE IRON POWDER MARKET - EUROPE MARKET ANALYSIS

6.1 Europe Iron Powder Market Revenue (US\$ Million)

6.2 Europe Iron Powder Market Volume (Kilo Tons)

6.3 Europe Iron Powder Market Forecast and Analysis

7. EUROPE IRON POWDER MARKET ANALYSIS - TYPE

7.1 Reduced

7.1.1 Overview

7.1.2 Reduced Market Revenue and Forecast to 2030 (US\$ Million)

7.1.3 Reduced Market Volume and Forecast to 2030 (Kilo Tons)

7.2 Atomized

7.2.1 Overview

7.2.2 Atomized Market Revenue and Forecast to 2030 (US\$ Million)

7.2.3 Atomized Market Volume and Forecast to 2030 (Kilo Tons)

7.3 Electrolytic

7.3.1 Overview

7.3.2 Electrolytic Market Revenue and Forecast to 2030 (US\$ Million)

7.3.3 Electrolytic Market Volume and Forecast to 2030 (Kilo Tons)

8. EUROPE IRON POWDER MARKET ANALYSIS - MANUFACTURING PROCESS

8.1 Physical

8.1.1 Overview

8.1.2 Physical Market Revenue and Forecast to 2030 (US\$ Million)

8.1.3 Atomization

8.1.3.1 Atomization : Europe Iron Powder Market - Revenue and Forecast to 2030 (US\$ Million)

8.1.4 Electro Deposition

8.1.4.1 Electro Deposition : Europe Iron Powder Market - Revenue and Forecast to

2030 (US\$ Million)

8.2 Chemical

8.2.1 Overview

8.2.2 Chemical Market Revenue and Forecast to 2030 (US\$ Million)

8.2.3 Reduction

8.2.3.1 Reduction : Europe Iron Powder Market - Revenue and Forecast to 2030
(US\$ Million)

8.2.4 Decomposition

8.2.4.1 Decomposition: Europe Iron Powder Market - Revenue and Forecast to 2030
(US\$ Million)

8.3 Mechanical

8.3.1 Overview

8.3.2 Mechanical Market Revenue and Forecast to 2030 (US\$ Million)

9. EUROPE IRON POWDER MARKET ANALYSIS - GRADE

9.1 99.0%

9.1.1 Overview

9.1.2 99.0% Market Revenue and Forecast to 2030 (US\$ Million)

9.2 99.1%

9.2.1 Overview

9.2.2 99.1% Market Revenue and Forecast to 2030 (US\$ Million)

10. EUROPE IRON POWDER MARKET ANALYSIS - END-USE INDUSTRY

10.1 Paints and Coatings

10.1.1 Overview

10.1.2 Paints and Coatings Market Revenue and Forecast to 2030 (US\$ Million)

10.2 Additive Manufacturing

10.2.1 Overview

10.2.2 Additive Manufacturing Market Revenue and Forecast to 2030 (US\$ Million)

10.3 Medical

10.3.1 Overview

10.3.2 Medical Market Revenue and Forecast to 2030 (US\$ Million)

10.4 Soft Magnetic Products

10.4.1 Overview

10.4.2 Soft Magnetic Products Market Revenue and Forecast to 2030 (US\$ Million)

10.5 Metallurgy

10.5.1 Overview

10.5.2 Metallurgy Market Revenue and Forecast to 2030 (US\$ Million)

10.5.3 Compound Brazing

10.5.3.1 Compound Brazing: Europe Iron Powder Market - Revenue and Forecast to 2030 (US\$ Million)

10.5.4 Compound Sintering

10.5.4.1 Compound Sintering: Europe Iron Powder Market - Revenue and Forecast to 2030 (US\$ Million)

10.5.5 Compound Welding

10.5.5.1 Compound Welding: Europe Iron Powder Market - Revenue and Forecast to 2030 (US\$ Million)

10.5.6 Others

10.5.6.1 Others: Europe Iron Powder Market - Revenue and Forecast to 2030 (US\$ Million)

10.6 Others

10.6.1 Overview

10.6.2 Others Market Revenue and Forecast to 2030 (US\$ Million)

11. EUROPE IRON POWDER MARKET - COUNTRY ANALYSIS

11.1 Europe Iron Powder Market Revenue and Forecasts and Analysis - By Countries

11.1.1 Europe Iron Powder Market Breakdown by Country

11.1.2 Germany: Europe Iron Powder Market Revenue and Forecasts to 2030 (US\$ Million)

11.1.3 Germany: Europe Iron Powder Market Volume and Forecasts to 2030 (Kilo Tons)

11.1.3.1 Germany: Europe Iron Powder Market Breakdown by Type

11.1.3.2 Germany: Europe Iron Powder Market Breakdown by Manufacturing Process

11.1.3.3 Germany: Europe Iron Powder Market Breakdown by Grade

11.1.3.4 Germany: Europe Iron Powder Market Breakdown by End-Use Industry

11.1.4 France: Europe Iron Powder Market Revenue and Forecasts to 2030 (US\$ Million)

11.1.5 France: Europe Iron Powder Market Volume and Forecasts to 2030 (Kilo Tons)

11.1.5.1 France: Europe Iron Powder Market Breakdown by Type

11.1.5.2 France: Europe Iron Powder Market Breakdown by Manufacturing Process

11.1.5.3 France: Europe Iron Powder Market Breakdown by Grade

11.1.5.4 France: Europe Iron Powder Market Breakdown by End-Use Industry

11.1.6 Italy: Europe Iron Powder Market Revenue and Forecasts to 2030 (US\$ Million)

11.1.7 Italy: Europe Iron Powder Market Volume and Forecasts to 2030 (Kilo Tons)

- 11.1.7.1 Italy: Europe Iron Powder Market Breakdown by Type
- 11.1.7.2 Italy: Europe Iron Powder Market Breakdown by Manufacturing Process
- 11.1.7.3 Italy: Europe Iron Powder Market Breakdown by Grade
- 11.1.7.4 Italy: Europe Iron Powder Market Breakdown by End-Use Industry
- 11.1.8 UK: Europe Iron Powder Market Revenue and Forecasts to 2030 (US\$ Million)
- 11.1.9 UK: Europe Iron Powder Market Volume and Forecasts to 2030 (Kilo Tons)
 - 11.1.9.1 UK: Europe Iron Powder Market Breakdown by Type
 - 11.1.9.2 UK: Europe Iron Powder Market Breakdown by Manufacturing Process
 - 11.1.9.3 UK: Europe Iron Powder Market Breakdown by Grade
 - 11.1.9.4 UK: Europe Iron Powder Market Breakdown by End-Use Industry
- 11.1.10 Russia: Europe Iron Powder Market Revenue and Forecasts to 2030 (US\$ Million)
- 11.1.11 Russia: Europe Iron Powder Market Volume and Forecasts to 2030 (Kilo Tons)
 - 11.1.11.1 Russia: Europe Iron Powder Market Breakdown by Type
 - 11.1.11.2 Russia: Europe Iron Powder Market Breakdown by Manufacturing Process
 - 11.1.11.3 Russia: Europe Iron Powder Market Breakdown by Grade
 - 11.1.11.4 Russia: Europe Iron Powder Market Breakdown by End-Use Industry
- 11.1.12 Rest of Europe: Europe Iron Powder Market Revenue and Forecasts to 2030 (US\$ Million)
- 11.1.13 Rest of Europe: Europe Iron Powder Market Volume and Forecasts to 2030 (Kilo Tons)
 - 11.1.13.1 Rest of Europe: Europe Iron Powder Market Breakdown by Type
 - 11.1.13.2 Rest of Europe: Europe Iron Powder Market Breakdown by Manufacturing Process
 - 11.1.13.3 Rest of Europe: Europe Iron Powder Market Breakdown by Grade
 - 11.1.13.4 Rest of Europe: Europe Iron Powder Market Breakdown by End-Use Industry

12. COMPETITIVE LANDSCAPE

- 12.1 Heat Map Analysis By Key Players
- 12.2 Company Positioning & Concentration

13. INDUSTRY LANDSCAPE

- 13.1 Overview
- 13.2 Market Initiative
- 13.3 New Product Development

13.4 Merger and Acquisition

14. COMPANY PROFILES

14.1 Rio Tinto Metal Powders

- 14.1.1 Key Facts
- 14.1.2 Business Description
- 14.1.3 Products and Services
- 14.1.4 Financial Overview
- 14.1.5 SWOT Analysis
- 14.1.6 Key Developments

14.2 American Elements Inc

- 14.2.1 Key Facts
- 14.2.2 Business Description
- 14.2.3 Products and Services
- 14.2.4 Financial Overview
- 14.2.5 SWOT Analysis
- 14.2.6 Key Developments

14.3 Industrial Metal Powders (India) Pvt Ltd

- 14.3.1 Key Facts
- 14.3.2 Business Description
- 14.3.3 Products and Services
- 14.3.4 Financial Overview
- 14.3.5 SWOT Analysis
- 14.3.6 Key Developments

14.4 CNPC Powder North America Inc

- 14.4.1 Key Facts
- 14.4.2 Business Description
- 14.4.3 Products and Services
- 14.4.4 Financial Overview
- 14.4.5 SWOT Analysis
- 14.4.6 Key Developments

14.5 Ashland Inc

- 14.5.1 Key Facts
- 14.5.2 Business Description
- 14.5.3 Products and Services
- 14.5.4 Financial Overview
- 14.5.5 SWOT Analysis
- 14.5.6 Key Developments

14.6 BASF SE

- 14.6.1 Key Facts
- 14.6.2 Business Description
- 14.6.3 Products and Services
- 14.6.4 Financial Overview
- 14.6.5 SWOT Analysis
- 14.6.6 Key Developments

14.7 Hoganas AB

- 14.7.1 Key Facts
- 14.7.2 Business Description
- 14.7.3 Products and Services
- 14.7.4 Financial Overview
- 14.7.5 SWOT Analysis
- 14.7.6 Key Developments

14.8 JFE Steel Corp

- 14.8.1 Key Facts
- 14.8.2 Business Description
- 14.8.3 Products and Services
- 14.8.4 Financial Overview
- 14.8.5 SWOT Analysis
- 14.8.6 Key Developments

14.9 Reade International Corp

- 14.9.1 Key Facts
- 14.9.2 Business Description
- 14.9.3 Products and Services
- 14.9.4 Financial Overview
- 14.9.5 SWOT Analysis
- 14.9.6 Key Developments

14.10 Kobe Steel Ltd

- 14.10.1 Key Facts
- 14.10.2 Business Description
- 14.10.3 Products and Services
- 14.10.4 Financial Overview
- 14.10.5 SWOT Analysis
- 14.10.6 Key Developments

15. APPENDIX

I would like to order

Product name: Europe Iron Powder Market Forecast to 2030 - Regional Analysis - by Type (Reduced, Atomized, and Electrolytic), Manufacturing Process [Physical (Atomization and Electro Deposition), Chemical (Reduction and Decomposition), and Mechanical], Grade (? 99.0% and ? 99.1%), and End-Use Industry [Paints and Coatings, Additive Manufacturing, Medical, Soft Magnetic Products, Metallurgy (Compound Brazing, Compound Sintering, Compound Welding, and Others), and Others]

Product link: <https://marketpublishers.com/r/E598013FA17EEN.html>

Price: US\$ 3,550.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/E598013FA17EEN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms

& Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below
and fax the completed form to +44 20 7900 3970