

Iron Powder Market Size and Forecasts (2020 - 2030), Global and Regional Share, Trends, and Growth Opportunity Analysis Report Coverage: 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 & Coatings, Additive Manufacturing, Medical, Soft Magnetic Products, Metallurgy [Compound Brazing, Compound Sintering, Compound Welding, and Others], and Others)

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Abstracts

The iron powder market size was valued at US\$ 1.80 billion in 2022 and is expected to reach US\$ 2.88 billion by 2030; it is estimated to register a CAGR of 6.0% from 2022 to 2030.

Iron powder is a fine, powdered form of iron that is widely used in various industrial applications. It is typically produced through the reduction of iron oxide, such as iron ore, using a controlled chemical process. This results in very small iron particles that can vary in size, shape, and purity, depending on the production method. Iron powder is particularly valuable in the production of sintered parts, as it can be compacted and heated to create dense, high-strength components for industries like automotive and machinery manufacturing. These parts can include gears, bushings, and filters. Iron

powder is also used in the production of magnetic materials, especially in the manufacturing of permanent magnets. These magnets find applications in a wide range of industries, from electronics to transportation, due to their ability to retain strong magnetic properties over time.

In terms of end-use industry, the iron powder market is bifurcated into paints & coatings, additive manufacturing, medical, soft magnetic products, metallurgy, and others. The additive manufacturing segment is expected to register highest CAGR in the iron powder market from 2022 to 2030. Iron powder is a crucial material in the realm of additive manufacturing, also known as 3D printing, due to its versatile applications and excellent properties. This finely powdered form of iron is employed in various additive manufacturing processes, such as powder bed fusion and binder jetting, to create intricate and durable metal components. The significant usage of iron powder in additive manufacturing is in the production of high-strength and lightweight parts for industries such as aerospace and automotive. Iron-based alloys, such as stainless steel or tool steel, can be synthesized by mixing iron powder with alloying elements, and the resulting components exhibit exceptional mechanical properties, corrosion resistance, and heat resistance. Furthermore, iron powder's magnetic properties make it indispensable in the manufacturing of electromagnetic components and sensors, where precise geometries are essential. Its ability to be easily sintered or fused during the additive manufacturing process enables the creation of complex, customized magnetic devices with precision. All these factors are driving the iron powder market growth in the additive manufacturing sector.

Asia Pacific is estimated to register the fastest CAGR in the global iron powder market from 2022 to 2030. The increasing projects in the field of electrification, coupled with the growth of the electronics industry in the Asia Pacific, provide lucrative opportunities for the iron powder market growth. According to The Association of Southeast Asian Nations (ASEAN), the electronics industry accounts for 20–50% of the total value of exports of most countries in Asia Pacific. Moreover, the rising automotive sales in the Asia Pacific countries, including India and China, have been one of the most encouraging growth factors for the iron powder market in recent years. Besides, the growing middle-class population, developing surface transportation infrastructure, rising disposable income, increasing mobility due to the development of satellite townships near megacities, and increasing aspiration of owning private vehicles fuel the market for iron powder in Asia Pacific, further driving the iron powder market growth.

A few players operating in the global iron powder market include Rio Tinto Metal Powders, American Elements Inc, Industrial Metal Powders (INDIA) Pvt Ltd, CNPC

Powder North America Inc, Ashland Inc, BASF SE, Hoganas AB, JFE Steel Corp, Reade International Corp, Kobe Steel Ltd. Players operating in the global iron powder market focus on providing high-quality products to fulfill customer demand. Also, they are focusing on launching new and high-quality products for their customers.

The overall global iron powder market size has been derived using both primary and secondary sources. To begin the research process, exhaustive secondary research has been conducted using internal and external sources to obtain qualitative and quantitative information related to the market. Also, multiple primary interviews have been conducted with industry participants to validate the data and gain more analytical insights into the topic. The participants of this process include industry experts such as VPs, business development managers, market intelligence managers, and national sales managers—along with external consultants such as valuation experts, research analysts, and key opinion leaders—specializing in the iron powder market.

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 - 15.10.5 SWOT Analysis
 - 15.10.6 Key Developments

16. APPENDIX

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