

Global Metal Powder Market Report and Forecast 2023-2028

Market Report | 2023-08-21 | 164 pages | EMR Inc.

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Report description:

Global Metal Powder Market Report and Forecast 2023-2028

Market Outlook

According to the report by Expert Market Research (EMR), the global metal powder market is projected to grow at a CAGR of 4.3% between 2023 and 2028. Aided by the burgeoning demand for advanced materials in key industries and the diverse applications of metal powders, the market is expected to grow significantly to reach a value of 5.87 billion by 2028.

Metal powders comprise fine particles of metals such as iron, aluminium, and copper. These powders find primary application in processes like powder metallurgy, where they are compacted and sintered to produce various components. Owing to their distinctive characteristics like high surface area and reactivity, metal powders are integral to sectors ranging from automotive and aerospace to energy and medical.

One of the key metal powder market trends driving the market is the surge in demand from the automotive and aerospace sectors. These industries continually seek lightweight, yet robust materials to enhance fuel efficiency and performance. Metal powders, when utilised in manufacturing processes like additive manufacturing or 3D printing, can produce intricate designs that are both lightweight and durable, answering the needs of these pivotal sectors.

Additionally, the ongoing technological advancements in the additive manufacturing realm are amplifying the metal powder market growth. As industries explore the full potential of 3D printing, the demand for high-quality metal powders, capable of producing precise and reliable parts, escalates. This, combined with the cost-effectiveness of powder metallurgy compared to traditional manufacturing, further cements the role of metal powders in modern industry.

Moreover, innovations are expected to shape the market outlook in the forecast period. Research into green synthesis methods and the recycling of metal powders offers pathways to more sustainable production. Moreover, novel alloy combinations are being explored to provide enhanced properties, broadening the scope of applications for metal powders.

On another front, the energy sector's transformation, especially the shift towards renewable energy sources, showcases a promising future of the metal powder market demand. Advanced materials are required for efficient energy storage, and metal powders, especially in battery technologies, play a crucial role.

Market Segmentation

The market can be divided based on metal form, type, production method, compaction technique, and region.

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Market Breakup by Metal Form

- Scrap/Recycled Metal
- Ores/Pure Metal

Market Breakup by Type

- Ferrous Metal Powder
- Non-Ferrous Metal Powder
- Others

Market Breakup by Production Method

- Physical Method
- Chemical Method
- Mechanical Method

Market Breakup by Compaction Technique

- Cold Compaction
- Hot Compaction

Market Breakup by Region

- North America
- Europe
- Asia Pacific
- Latin America
- Middle East and Africa

Competitive Landscape

The EMR report looks into the market shares, plant turnarounds, capacities, investments, and mergers and acquisitions, among other major developments, of the leading companies operating in the global metal powder market. Some of the major players explored in the report by Expert Market Research are as follows:

- Sandvik AB
- CRS Holdings Inc.
- Rio Tinto plc
- Allegheny Technologies (ATI)
- Hoganas AB
- Alcoa Inc.
- Others

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