

Metal Powder Market Set to Surpass USD 12.05 Billion by 2030, Fueled by growing application in the automotive industry

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AUSTIN, TEXAS, UNITED STATES, January 11, 2024 /EINPresswire.com/ --The rising utilization of iron powder and increasing demand for structural components in various applications represent some of the key factors driving the Metal Powder Market growth.

Metal Powder Market is supposed to arrive at USD 6.96 billion by 2022, developing at a CAGR of 7.1% and 12.05 billion at 2030

Global Metal Powder Market

Size by 2023 to 2030 (USD Billion)

CAGR 7.1%

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Developing at a CAGR of 7.1%, Metal powders find extensive applications in processes such as thermal spraying, plastic filling, and the production of sintered parts, among various other uses."

SNS Insider Research

Additive manufacturing or 3D printing through powdered metal demand has been increasing due to strong functional properties, faster production, and high reusability. Several manufacturers have transitioned to optical dispersion and image processing particle characterizing devices, gaining the advantages of lower costs and higher data quality. The use of metal powders in the automotive sector is increasing due to the innovation of new complex components, cutting costs, and promoting

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sustainability. Metal powders are in high demand in the automotive sector due to increasing

demand for lightweight and fuel-efficient automobiles. The application of metal powders in the aerospace sector helps to reduce aircraft weight, improving fuel efficiency.

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Metal powders are widely used in various applications, including welding, chemical processes, metallurgical processes, iron fortification, and friction, among others. The increased demand in key industries such as batteries, motor vehicles, electrical equipment, and machinery manufacturing will be the primary driver for the growth of this market. The significant growth of the metal powders market worldwide can be mainly attributed to the remarkable expansion of the manufacturing sector in established and emerging nations. Additionally, the rise in research and development expenditure, technological advancements, and the substantial increase in aerospace and automotive production capacities have also contributed to the growing global demand for metal powder.

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- Virgin PET
- Recycled PET

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- Ferrous
- Non-ferrous
- Others

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- Transportation & logistics
- Industrial
- Construction
- Electrical & electronics
- Others

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- Physical
- Chemical
- Mechanical

- Cold Compaction
- Hot Compaction

- Scrap/Recycled metals
- Ore/Pure metal

- Aerospace
- Aviation
- Energy
- Medicine
- Other

The Asia Pacific accounted for the largest volume share of 35% in 2022, primarily from the automotive and aerospace industries. North America is expected to grow at a significant growth rate from 2023 to 2030. The increasing popularity of electric and hybrid vehicles has decreased the demand for various sintered parts in transmissions and engines.

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- A rise in the manufacturing output of industrial and automotive components is estimated to generate demand for metal in these industries.
- The intensifying need for lightweight components in the automotive industry has offered stimulus for the growth of the global metal powder market.

- In Nov 2023, HP Inc.made a significant announcement regarding its strategic collaboration with Sandvik AB, a renowned company based in Sweden. The purpose of this collaboration is to introduce cutting-edge materials, including superalloys and 316L stainless steel, to HP's revolutionary Metal Jet Additive Manufacturing technology.
- In Sept 2022, Hitachi Metals, Ltd., Japan, released its ADMUSTER® C21P nickel-base alloy powder for metal Additive Manufacturing.
- In July 2021, Burloak Technologiesannounced the opening of a second additive manufacturing facility in Camarillo, California, to complement its Additive Manufacturing Centre of Excellence.
- In May 2021, Rio Tintosuccessfully developed and tested a steel powder designed for 3-D printing applications at its Rio Tinto Fer et Titane (RTFT) metallurgical complex in Sorel-Tracy, Quebec.

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