

Metal Replacement Market Report by Type (Engineering Plastics, Composites), End Use Industry (Automotive, Aerospace and Defense, Construction, Packaging, Consumer Goods, Healthcare, Transportation, and Others), and Region 2024-2032

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Abstracts

The global metal replacement market size reached US\$ 182.2 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 356.4 Billion by 2032, exhibiting a growth rate (CAGR) of 7.5% during 2024-2032.

Metal replacement refers to the substitution of metals with high-performance polymers, ceramics and composites. Some of the commonly used metal replacement materials include polycarbonates, polyamides, acrylonitrile butadiene styrene (ABS), thermoplastic polyester, fluoropolymers and polyacetals. In comparison to the traditionally used metals, they are lightweight and offer enhanced material performance, cost-effectiveness, thermal, acoustic, electrical and vibration insulation and corrosion and chemical resistance. They are also convenient to manufacture and can be molded into complex shapes. As a result, they find extensive application across various industries, including aerospace, defense, automotive, healthcare and construction.

Metal Replacement Market Trends:

The increasing adoption of engineering plastics across industries is one of the key factors driving the growth of the market. Moreover, the widespread adoption of metal replacement in the aerospace and automotive industries is providing a thrust to the market growth. Metal replacing materials exhibit superior mechanical strength and heat resistance and are widely used for the manufacturing of connectors, under-the-hood components, reflectors and lighting sockets. They are also used for the production of

lightweight and compact aerospace components that exhibit enhanced structural strength and durability. In line with this, the widespread adoption of polyphenylsulfone for medical and high-temperature applications is also contributing to the growth of the market. Additionally, the increasing utilization of metal replacement in residential and commercial construction projects is acting as another growth-inducing factor. These materials are utilized to substitute steel rods, concrete reinforcements and produce effective sewage systems. Other factors, including the increasing requirement for lightweight components across industries, along with extensive research and development (R&D) activities, are anticipated to drive the market toward growth.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global metal replacement market report, along with forecasts at the global, regional and country level from 2024-2032. Our report has categorized the market based on type and end use industry.

Breakup by Type:

Engineering Plastics

Polyamide

Acrylonitrile Butadiene Styrene (ABS)

Thermoplastic Polyesters

Polycarbonates

Others

Composites

Glass Fiber Reinforced Plastic

Carbon Fiber Reinforced Plastic

Breakup by End Use Industry:

Automotive

Aerospace and Defense

Construction

Packaging

Consumer Goods

Healthcare

Transportation

Others

Breakup by Region:

North America

United States

Canada

Asia-Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being A.K. Industries Inc., Asahi Kasei Corporation, Aztec Plastic Company, BASF SE, Celanese Corporation, China Jushi Co.Ltd., DOMO Chemicals GmbH, DuPont de Nemours Inc., SGL Carbon SE, Solvay S.A., Toray Industries Inc. and Victrex plc.

Key Questions Answered in This Report

1. What was the size of the global metal replacement market in 2023?
2. What is the expected growth rate of the global metal replacement market during 2024-2032?
3. What are the key factors driving the global metal replacement market?
4. What has been the impact of COVID-19 on the global metal replacement market?
5. What is the breakup of the global metal replacement market based on the type?
6. What is the breakup of the global metal replacement market based on the end use industry?
7. What are the key regions in the global metal replacement market?
8. Who are the key players/companies in the global metal replacement market?

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