

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?

Contents

1 PREFACE

2 SCOPE AND METHODOLOGY

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
 - 2.3.1 Primary Sources
 - 2.3.2 Secondary Sources
- 2.4 Market Estimation
 - 2.4.1 Bottom-Up Approach
 - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

3 EXECUTIVE SUMMARY

4 INTRODUCTION

- 4.1 Overview
- 4.2 Key Industry Trends

5 GLOBAL METAL REPLACEMENT MARKET

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Forecast

6 MARKET BREAKUP BY TYPE

- 6.1 Engineering Plastics
 - 6.1.1 Market Trends
 - 6.1.2 Key Segments
 - 6.1.2.1 Polyamide
 - 6.1.2.2 Acrylonitrile Butadiene Styrene (ABS)
 - 6.1.2.3 Thermoplastic Polyesters
 - 6.1.2.4 Polycarbonates

- 6.1.2.5 Others
- 6.1.3 Market Forecast
- 6.2 Composites
 - 6.2.1 Market Trends
 - 6.2.2 Key Segments
 - 6.2.2.1 Glass Fiber Reinforced Plastic
 - 6.2.2.2 Carbon Fiber Reinforced Plastic
 - 6.2.3 Market Forecast

7 MARKET BREAKUP BY END USE INDUSTRY

- 7.1 Automotive
 - 7.1.1 Market Trends
 - 7.1.2 Market Forecast
- 7.2 Aerospace and Defense
 - 7.2.1 Market Trends
 - 7.2.2 Market Forecast
- 7.3 Construction
 - 7.3.1 Market Trends
 - 7.3.2 Market Forecast
- 7.4 Packaging
 - 7.4.1 Market Trends
 - 7.4.2 Market Forecast
- 7.5 Consumer Goods
 - 7.5.1 Market Trends
 - 7.5.2 Market Forecast
- 7.6 Healthcare
 - 7.6.1 Market Trends
 - 7.6.2 Market Forecast
- 7.7 Transportation
 - 7.7.1 Market Trends
 - 7.7.2 Market Forecast
- 7.8 Others
 - 7.8.1 Market Trends
 - 7.8.2 Market Forecast

8 MARKET BREAKUP BY REGION

- 8.1 North America

- 8.1.1 United States
 - 8.1.1.1 Market Trends
 - 8.1.1.2 Market Forecast
- 8.1.2 Canada
 - 8.1.2.1 Market Trends
 - 8.1.2.2 Market Forecast
- 8.2 Asia-Pacific
 - 8.2.1 China
 - 8.2.1.1 Market Trends
 - 8.2.1.2 Market Forecast
 - 8.2.2 Japan
 - 8.2.2.1 Market Trends
 - 8.2.2.2 Market Forecast
 - 8.2.3 India
 - 8.2.3.1 Market Trends
 - 8.2.3.2 Market Forecast
 - 8.2.4 South Korea
 - 8.2.4.1 Market Trends
 - 8.2.4.2 Market Forecast
 - 8.2.5 Australia
 - 8.2.5.1 Market Trends
 - 8.2.5.2 Market Forecast
 - 8.2.6 Indonesia
 - 8.2.6.1 Market Trends
 - 8.2.6.2 Market Forecast
 - 8.2.7 Others
 - 8.2.7.1 Market Trends
 - 8.2.7.2 Market Forecast
- 8.3 Europe
 - 8.3.1 Germany
 - 8.3.1.1 Market Trends
 - 8.3.1.2 Market Forecast
 - 8.3.2 France
 - 8.3.2.1 Market Trends
 - 8.3.2.2 Market Forecast
 - 8.3.3 United Kingdom
 - 8.3.3.1 Market Trends
 - 8.3.3.2 Market Forecast
 - 8.3.4 Italy

- 8.3.4.1 Market Trends
- 8.3.4.2 Market Forecast
- 8.3.5 Spain
 - 8.3.5.1 Market Trends
 - 8.3.5.2 Market Forecast
- 8.3.6 Russia
 - 8.3.6.1 Market Trends
 - 8.3.6.2 Market Forecast
- 8.3.7 Others
 - 8.3.7.1 Market Trends
 - 8.3.7.2 Market Forecast
- 8.4 Latin America
 - 8.4.1 Brazil
 - 8.4.1.1 Market Trends
 - 8.4.1.2 Market Forecast
 - 8.4.2 Mexico
 - 8.4.2.1 Market Trends
 - 8.4.2.2 Market Forecast
 - 8.4.3 Others
 - 8.4.3.1 Market Trends
 - 8.4.3.2 Market Forecast
- 8.5 Middle East and Africa
 - 8.5.1 Market Trends
 - 8.5.2 Market Breakup by Country
 - 8.5.3 Market Forecast

9 SWOT ANALYSIS

- 9.1 Overview
- 9.2 Strengths
- 9.3 Weaknesses
- 9.4 Opportunities
- 9.5 Threats

10 VALUE CHAIN ANALYSIS

11 PORTERS FIVE FORCES ANALYSIS

- 11.1 Overview

- 11.2 Bargaining Power of Buyers
- 11.3 Bargaining Power of Suppliers
- 11.4 Degree of Competition
- 11.5 Threat of New Entrants
- 11.6 Threat of Substitutes

12 PRICE ANALYSIS

13 COMPETITIVE LANDSCAPE

- 13.1 Market Structure
- 13.2 Key Players
- 13.3 Profiles of Key Players
 - 13.3.1 A.K. Industries Inc.
 - 13.3.1.1 Company Overview
 - 13.3.1.2 Product Portfolio
 - 13.3.2 Asahi Kasei Corporation
 - 13.3.2.1 Company Overview
 - 13.3.2.2 Product Portfolio
 - 13.3.2.3 Financials
 - 13.3.2.4 SWOT Analysis
 - 13.3.3 Aztec Plastic Company
 - 13.3.3.1 Company Overview
 - 13.3.3.2 Product Portfolio
 - 13.3.4 BASF SE
 - 13.3.4.1 Company Overview
 - 13.3.4.2 Product Portfolio
 - 13.3.4.3 Financials
 - 13.3.4.4 SWOT Analysis
 - 13.3.5 Celanese Corporation
 - 13.3.5.1 Company Overview
 - 13.3.5.2 Product Portfolio
 - 13.3.5.3 Financials
 - 13.3.5.4 SWOT Analysis
 - 13.3.6 China Jushi Co.Ltd.
 - 13.3.6.1 Company Overview
 - 13.3.6.2 Product Portfolio
 - 13.3.6.3 Financials
 - 13.3.7 DOMO Chemicals GmbH

- 13.3.7.1 Company Overview
- 13.3.7.2 Product Portfolio
- 13.3.8 DuPont de Nemours Inc.
 - 13.3.8.1 Company Overview
 - 13.3.8.2 Product Portfolio
 - 13.3.8.3 Financials
 - 13.3.8.4 SWOT Analysis
- 13.3.9 SGL Carbon SE
 - 13.3.9.1 Company Overview
 - 13.3.9.2 Product Portfolio
 - 13.3.9.3 Financials
 - 13.3.9.4 SWOT Analysis
- 13.3.10 Solvay S.A.
 - 13.3.10.1 Company Overview
 - 13.3.10.2 Product Portfolio
 - 13.3.10.3 Financials
 - 13.3.10.4 SWOT Analysis
- 13.3.11 Toray Industries Inc.
 - 13.3.11.1 Company Overview
 - 13.3.11.2 Product Portfolio
 - 13.3.11.3 Financials
 - 13.3.11.4 SWOT Analysis
- 13.3.12 Victrex plc
 - 13.3.12.1 Company Overview
 - 13.3.12.2 Product Portfolio
 - 13.3.12.3 Financials

List Of Tables

LIST OF TABLES

Table 1: Global: Metal Replacement Market: Key Industry Highlights, 2023 and 2032

Table 2: Global: Metal Replacement Market Forecast: Breakup by Type (in Million US\$), 2024-2032

Table 3: Global: Metal Replacement Market Forecast: Breakup by End Use Industry (in Million US\$), 2024-2032

Table 4: Global: Metal Replacement Market Forecast: Breakup by Region (in Million US\$), 2024-2032

Table 5: Global: Metal Replacement Market: Competitive Structure

Table 6: Global: Metal Replacement Market: Key Players

List Of Figures

LIST OF FIGURES

- Figure 1: Global: Metal Replacement Market: Major Drivers and Challenges
- Figure 2: Global: Metal Replacement Market: Sales Value (in Billion US\$), 2018-2023
- Figure 3: Global: Metal Replacement Market Forecast: Sales Value (in Billion US\$), 2024-2032
- Figure 4: Global: Metal Replacement Market: Breakup by Type (in %), 2023
- Figure 5: Global: Metal Replacement Market: Breakup by End Use Industry (in %), 2023
- Figure 6: Global: Metal Replacement Market: Breakup by Region (in %), 2023
- Figure 7: Global: Metal Replacement (Engineering Plastics) Market: Sales Value (in Million US\$), 2018 & 2023
- Figure 8: Global: Metal Replacement (Engineering Plastics) Market Forecast: Sales Value (in Million US\$), 2024-2032
- Figure 9: Global: Metal Replacement (Composites) Market: Sales Value (in Million US\$), 2018 & 2023
- Figure 10: Global: Metal Replacement (Composites) Market Forecast: Sales Value (in Million US\$), 2024-2032
- Figure 11: Global: Metal Replacement (Automotive) Market: Sales Value (in Million US\$), 2018 & 2023
- Figure 12: Global: Metal Replacement (Automotive) Market Forecast: Sales Value (in Million US\$), 2024-2032
- Figure 13: Global: Metal Replacement (Aerospace and Defense) Market: Sales Value (in Million US\$), 2018 & 2023
- Figure 14: Global: Metal Replacement (Aerospace and Defense) Market Forecast: Sales Value (in Million US\$), 2024-2032
- Figure 15: Global: Metal Replacement (Construction) Market: Sales Value (in Million US\$), 2018 & 2023
- Figure 16: Global: Metal Replacement (Construction) Market Forecast: Sales Value (in Million US\$), 2024-2032
- Figure 17: Global: Metal Replacement (Packaging) Market: Sales Value (in Million US\$), 2018 & 2023
- Figure 18: Global: Metal Replacement (Packaging) Market Forecast: Sales Value (in Million US\$), 2024-2032
- Figure 19: Global: Metal Replacement (Consumer Goods) Market: Sales Value (in Million US\$), 2018 & 2023
- Figure 20: Global: Metal Replacement (Consumer Goods) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 21: Global: Metal Replacement (Healthcare) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 22: Global: Metal Replacement (Healthcare) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 23: Global: Metal Replacement (Transportation) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 24: Global: Metal Replacement (Transportation) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 25: Global: Metal Replacement (Other End Use Industries) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 26: Global: Metal Replacement (Other End Use Industries) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 27: North America: Metal Replacement Market: Sales Value (in Million US\$), 2018 & 2023

Figure 28: North America: Metal Replacement Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 29: United States: Metal Replacement Market: Sales Value (in Million US\$), 2018 & 2023

Figure 30: United States: Metal Replacement Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 31: Canada: Metal Replacement Market: Sales Value (in Million US\$), 2018 & 2023

Figure 32: Canada: Metal Replacement Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 33: Asia-Pacific: Metal Replacement Market: Sales Value (in Million US\$), 2018 & 2023

Figure 34: Asia-Pacific: Metal Replacement Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 35: China: Metal Replacement Market: Sales Value (in Million US\$), 2018 & 2023

Figure 36: China: Metal Replacement Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 37: Japan: Metal Replacement Market: Sales Value (in Million US\$), 2018 & 2023

Figure 38: Japan: Metal Replacement Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 39: India: Metal Replacement Market: Sales Value (in Million US\$), 2018 & 2023

Figure 40: India: Metal Replacement Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 41: South Korea: Metal Replacement Market: Sales Value (in Million US\$), 2018 & 2023

Figure 42: South Korea: Metal Replacement Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 43: Australia: Metal Replacement Market: Sales Value (in Million US\$), 2018 & 2023

Figure 44: Australia: Metal Replacement Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 45: Indonesia: Metal Replacement Market: Sales Value (in Million US\$), 2018 & 2023

Figure 46: Indonesia: Metal Replacement Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 47: Others: Metal Replacement Market: Sales Value (in Million US\$), 2018 & 2023

Figure 48: Others: Metal Replacement Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 49: Europe: Metal Replacement Market: Sales Value (in Million US\$), 2018 & 2023

Figure 50: Europe: Metal Replacement Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 51: Germany: Metal Replacement Market: Sales Value (in Million US\$), 2018 & 2023

Figure 52: Germany: Metal Replacement Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 53: France: Metal Replacement Market: Sales Value (in Million US\$), 2018 & 2023

Figure 54: France: Metal Replacement Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 55: United Kingdom: Metal Replacement Market: Sales Value (in Million US\$), 2018 & 2023

Figure 56: United Kingdom: Metal Replacement Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 57: Italy: Metal Replacement Market: Sales Value (in Million US\$), 2018 & 2023

Figure 58: Italy: Metal Replacement Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 59: Spain: Metal Replacement Market: Sales Value (in Million US\$), 2018 & 2023

Figure 60: Spain: Metal Replacement Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 61: Russia: Metal Replacement Market: Sales Value (in Million US\$), 2018 & 2023

Figure 62: Russia: Metal Replacement Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 63: Others: Metal Replacement Market: Sales Value (in Million US\$), 2018 & 2023

Figure 64: Others: Metal Replacement Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 65: Latin America: Metal Replacement Market: Sales Value (in Million US\$), 2018 & 2023

Figure 66: Latin America: Metal Replacement Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 67: Brazil: Metal Replacement Market: Sales Value (in Million US\$), 2018 & 2023

Figure 68: Brazil: Metal Replacement Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 69: Mexico: Metal Replacement Market: Sales Value (in Million US\$), 2018 & 2023

Figure 70: Mexico: Metal Replacement Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 71: Others: Metal Replacement Market: Sales Value (in Million US\$), 2018 & 2023

Figure 72: Others: Metal Replacement Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 73: Middle East and Africa: Metal Replacement Market: Sales Value (in Million US\$), 2018 & 2023

Figure 74: Middle East and Africa: Metal Replacement Market: Breakup by Country (in %), 2023

Figure 75: Middle East and Africa: Metal Replacement Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 76: Global: Metal Replacement Industry: SWOT Analysis

Figure 77: Global: Metal Replacement Industry: Value Chain Analysis

Figure 78: Global: Metal Replacement Industry: Porter's Five Forces Analysis

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