

Metal Matrix Composite Market by Type (Aluminium, Nickel, Refractory, and Others), Reinforcement Material (Silicon Carbide, Aluminum Oxide, Titanium Carbide, and Others), Reinforcement Type (Discontinuous, Continuous, Particles), Production Technology (Powder Metallurgy, Liquid Metal Infiltration, Casting, Deposition Techniques), End Use Industry (Automotive and Locomotive, Electrical and Electronics, Aerospace and Defense, Industrial, and Others), and Region 2024-2032

<https://marketpublishers.com/r/M02057F63D67EN.html>

Date: January 2024

Pages: 148

Price: US\$ 3,899.00 (Single User License)

ID: M02057F63D67EN

Abstracts

The global metal matrix composite market size reached US\$ 522.8 Million in 2023. Looking forward, IMARC Group expects the market to reach US\$ 890.9 Million by 2032, exhibiting a growth rate (CAGR) of 5.92% during 2024-2032. The increasing demand for lightweight and high-performance materials, rising demand for refractory materials, and the growing utilization of electric vehicles (EVs) to reduce greenhouse gas emissions represent some of the key factors driving the market.

Metal matrix composites (MMCs) are composite materials, such as metals, alloys, or intermetallic compounds, which are incorporated with various particulates, whiskers or continuous fibers. They are manufactured by stacking and bonding alternative layers of metals or alloys to enhance the toughness and damage tolerance. They are designed to offer various benefits, such as improving strength, enhancing wear and creep resistance, increasing damping, and reducing thermal expansion. Besides this, MMCs provide high shear strength, enhance abrasion resistance, and offer nonflammability,

minimal attack by fuels and solvents, and the ability to be formed and treated on conventional equipment. They are also applied to brake rotors, pistons, and other automotive components as MMCs can operate in high temperatures. As a result, it finds extensive applications in the aerospace, defense, electronics, marine, and packaging industries across the globe.

Metal Matrix Composite Market Trends:

At present, the increasing demand for lightweight and high-performance materials in the aerospace industry to boost fuel efficiency due to the inflating fuel prices represents one of the key factors supporting the growth of the market. Besides this, the rising awareness among the masses about the benefits of MMCs over metals is offering lucrative growth opportunities to industry investors. Moreover, there is an increase in the demand for refractory materials, such as tungsten, niobium, rhenium, and molybdenum, across the globe. This, along with the growing demand for durable and high-precision equipment in the electronics industry, is positively influencing the market. In addition, there is a rise in the utilization of tungsten carbide in heat sinks, resistance welding, and ammunition manufacturing around the world. This, coupled with the increasing employment of MMCs in power electronic modules due to their excellent thermal conductivity, tunable coefficient of thermal expansion, and low density, is propelling the growth of the market. Apart from this, the growing demand for particulate reinforced metal matrix composites (PRMMCs) to manufacture radiator panels, power semiconductor packages, microwave modules, battery sleeves, black box enclosures, and printed circuit board (PCB) heat sinks is offering a favorable market outlook. Additionally, the increasing production of cellular phones, portable computing devices, and gaming systems is strengthening the growth of the market. Furthermore, the escalating demand for electric vehicles (EVs) to reduce greenhouse gas emissions around the world is bolstering the growth of the market.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global metal matrix composite market, along with forecasts at the global, regional, and country levels from 2024-2032. Our report has categorized the market based on type, reinforcement material, reinforcement type, production technology, and end use industry.

Type Insights:

Aluminium

Nickel

Refractory
Others

The report has provided a detailed breakup and analysis of the metal matrix composite market based on the type. This includes aluminium, nickel, refractory, and others. According to the report, refractory represented the largest segment.

Reinforcement Material Insights:

Silicon Carbide
Aluminum Oxide
Titanium Carbide
Others

A detailed breakup and analysis of the metal matrix composite market based on the reinforcement material has also been provided in the report. This includes silicon carbide, aluminum oxide, titanium carbide, and others. According to the report, silicon carbide accounted for the largest market share.

Reinforcement Type Insights:

Discontinuous
Continuous
Particles

A detailed breakup and analysis of the metal matrix composite market based on the reinforcement type has also been provided in the report. This includes discontinuous, continuous, and particles. According to the report, discontinuous accounted for the largest market share.

Production Technology Insights:

Powder Metallurgy
Liquid Metal Infiltration
Casting
Deposition Techniques

A detailed breakup and analysis of the metal matrix composite market based on the production technology has also been provided in the report. This includes powder

metallurgy, liquid metal infiltration, casting, and deposition techniques. According to the report, powder metallurgy accounted for the largest market share.

End Use Industry Insights:

- Automotive and Locomotive
- Electrical and Electronics
- Aerospace and Defense
- Industrial
- Others

A detailed breakup and analysis of the metal matrix composite market based on the end use industry has also been provided in the report. This includes automotive and locomotive, electrical and electronics, aerospace and defense, industrial, and others. According to the report, automotive and locomotive accounted for the largest market share.

Regional Insights:

- 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

The report has also provided a comprehensive analysis of all the major regional markets, which include North America (the United States and Canada); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa. According to the report, North America was the largest market for metal matrix composite. Some of the factors driving the North America metal matrix composite market included the growing number of automotive and aerospace manufacturers, increasing need for fuel-efficient vehicles, stringent government regulations to reduce automotive pollution, etc.

Competitive Landscape:

The report has also provided a comprehensive analysis of the competitive landscape in the global metal matrix composite market. Competitive analysis such as market structure, market share by key players, player positioning, top winning strategies, competitive dashboard, and company evaluation quadrant has been covered in the report. Also, detailed profiles of all major companies have been provided. Some of the companies covered include 3M Company, ADMA Products Inc., CeramTec GmbH, CPS Technologies Corporation, Denka Company Limited, Deutsche Edelstahlwerke Services GmbH (Swiss Steel Holding AG), DWA Aluminum Composites USA Inc., Ferrotec Holdings Corporation, Materion Corporation, Melrose Industries plc, Plansee Group, SANTIER Inc. (EGIDE Group), TISICS Ltd, etc.

Key Questions Answered in This Report:

How has the global metal matrix composite market performed so far, and how will it perform in the coming years?

What are the drivers, restraints, and opportunities in the global metal matrix composite market?

What is the impact of each driver, restraint, and opportunity on the global metal matrix composite market?

What are the key regional markets?

Which countries represent the most attractive metal matrix composite market?

What is the breakup of the market based on the type?

Which is the most attractive type in the metal matrix composite market?

What is the breakup of the market based on the reinforcement material?

Which is the most attractive reinforcement material in the metal matrix composite market?

What is the breakup of the market based on reinforcement type?

Which is the most attractive reinforcement type in the metal matrix composite market?

What is the breakup of the market based on production technology?

Which is the most attractive production technology in the metal matrix composite market?

What is the breakup of the market based on end use industry?

Which is the most attractive end use industry in the metal matrix composite market?

What is the competitive structure of the global metal matrix composite market?

Who are the key players/companies in the global metal matrix composite 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 MATRIX COMPOSITE 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 Aluminium
 - 6.1.1 Market Trends
 - 6.1.2 Market Forecast
- 6.2 Nickel
 - 6.2.1 Market Trends

- 6.2.2 Market Forecast
- 6.3 Refractory
 - 6.3.1 Market Trends
 - 6.3.2 Market Forecast
- 6.4 Others
 - 6.4.1 Market Trends
 - 6.4.2 Market Forecast

7 MARKET BREAKUP BY REINFORCEMENT MATERIAL

- 7.1 Silicon Carbide
 - 7.1.1 Market Trends
 - 7.1.2 Market Forecast
- 7.2 Aluminum Oxide
 - 7.2.1 Market Trends
 - 7.2.2 Market Forecast
- 7.3 Titanium Carbide
 - 7.3.1 Market Trends
 - 7.3.2 Market Forecast
- 7.4 Others
 - 7.4.1 Market Trends
 - 7.4.2 Market Forecast

8 MARKET BREAKUP BY REINFORCEMENT TYPE

- 8.1 Discontinuous
 - 8.1.1 Market Trends
 - 8.1.2 Market Forecast
- 8.2 Continuous
 - 8.2.1 Market Trends
 - 8.2.2 Market Forecast
- 8.3 Particles
 - 8.3.1 Market Trends
 - 8.3.2 Market Forecast

9 MARKET BREAKUP BY PRODUCTION TECHNOLOGY

- 9.1 Powder Metallurgy
 - 9.1.1 Market Trends

- 9.1.2 Market Forecast
- 9.2 Liquid Metal Infiltration
 - 9.2.1 Market Trends
 - 9.2.2 Market Forecast
- 9.3 Casting
 - 9.3.1 Market Trends
 - 9.3.2 Market Forecast
- 9.4 Deposition Techniques
 - 9.4.1 Market Trends
 - 9.4.2 Market Forecast

10 MARKET BREAKUP BY END USE INDUSTRY

- 10.1 Automotive and Locomotive
 - 10.1.1 Market Trends
 - 10.1.2 Market Forecast
- 10.2 Electrical and Electronics
 - 10.2.1 Market Trends
 - 10.2.2 Market Forecast
- 10.3 Aerospace and Defense
 - 10.3.1 Market Trends
 - 10.3.2 Market Forecast
- 10.4 Industrial
 - 10.4.1 Market Trends
 - 10.4.2 Market Forecast
- 10.5 Others
 - 10.5.1 Market Trends
 - 10.5.2 Market Forecast

11 MARKET BREAKUP BY REGION

- 11.1 North America
 - 11.1.1 United States
 - 11.1.1.1 Market Trends
 - 11.1.1.2 Market Forecast
 - 11.1.2 Canada
 - 11.1.2.1 Market Trends
 - 11.1.2.2 Market Forecast
- 11.2 Asia-Pacific

- 11.2.1 China
 - 11.2.1.1 Market Trends
 - 11.2.1.2 Market Forecast
- 11.2.2 Japan
 - 11.2.2.1 Market Trends
 - 11.2.2.2 Market Forecast
- 11.2.3 India
 - 11.2.3.1 Market Trends
 - 11.2.3.2 Market Forecast
- 11.2.4 South Korea
 - 11.2.4.1 Market Trends
 - 11.2.4.2 Market Forecast
- 11.2.5 Australia
 - 11.2.5.1 Market Trends
 - 11.2.5.2 Market Forecast
- 11.2.6 Indonesia
 - 11.2.6.1 Market Trends
 - 11.2.6.2 Market Forecast
- 11.2.7 Others
 - 11.2.7.1 Market Trends
 - 11.2.7.2 Market Forecast
- 11.3 Europe
 - 11.3.1 Germany
 - 11.3.1.1 Market Trends
 - 11.3.1.2 Market Forecast
 - 11.3.2 France
 - 11.3.2.1 Market Trends
 - 11.3.2.2 Market Forecast
 - 11.3.3 United Kingdom
 - 11.3.3.1 Market Trends
 - 11.3.3.2 Market Forecast
 - 11.3.4 Italy
 - 11.3.4.1 Market Trends
 - 11.3.4.2 Market Forecast
 - 11.3.5 Spain
 - 11.3.5.1 Market Trends
 - 11.3.5.2 Market Forecast
 - 11.3.6 Russia
 - 11.3.6.1 Market Trends

- 11.3.6.2 Market Forecast
- 11.3.7 Others
 - 11.3.7.1 Market Trends
 - 11.3.7.2 Market Forecast
- 11.4 Latin America
 - 11.4.1 Brazil
 - 11.4.1.1 Market Trends
 - 11.4.1.2 Market Forecast
 - 11.4.2 Mexico
 - 11.4.2.1 Market Trends
 - 11.4.2.2 Market Forecast
 - 11.4.3 Others
 - 11.4.3.1 Market Trends
 - 11.4.3.2 Market Forecast
- 11.5 Middle East and Africa
 - 11.5.1 Market Trends
 - 11.5.2 Market Breakup by Country
 - 11.5.3 Market Forecast

12 DRIVERS, RESTRAINTS, AND OPPORTUNITIES

- 12.1 Overview
- 12.2 Drivers
- 12.3 Restraints
- 12.4 Opportunities

13 VALUE CHAIN ANALYSIS

14 PORTERS FIVE FORCES ANALYSIS

- 14.1 Overview
- 14.2 Bargaining Power of Buyers
- 14.3 Bargaining Power of Suppliers
- 14.4 Degree of Competition
- 14.5 Threat of New Entrants
- 14.6 Threat of Substitutes

15 PRICE ANALYSIS

16 COMPETITIVE LANDSCAPE

16.1 Market Structure

16.2 Key Players

16.3 Profiles of Key Players

16.3.1 3M Company

16.3.1.1 Company Overview

16.3.1.2 Product Portfolio

16.3.1.3 Financials

16.3.1.4 SWOT Analysis

16.3.2 ADMA Products Inc.

16.3.2.1 Company Overview

16.3.2.2 Product Portfolio

16.3.3 CeramTec GmbH

16.3.3.1 Company Overview

16.3.3.2 Product Portfolio

16.3.4 CPS Technologies Corporation

16.3.4.1 Company Overview

16.3.4.2 Product Portfolio

16.3.4.3 Financials

16.3.5 Denka Company Limited

16.3.5.1 Company Overview

16.3.5.2 Product Portfolio

16.3.5.3 Financials

16.3.6 Deutsche Edelstahlwerke Services GmbH (Swiss Steel Holding AG)

16.3.6.1 Company Overview

16.3.6.2 Product Portfolio

16.3.7 DWA Aluminum Composites USA Inc.

16.3.7.1 Company Overview

16.3.7.2 Product Portfolio

16.3.8 Ferrotec Holdings Corporation

16.3.8.1 Company Overview

16.3.8.2 Product Portfolio

16.3.8.3 Financials

16.3.9 Materion Corporation

16.3.9.1 Company Overview

16.3.9.2 Product Portfolio

- 16.3.9.3 Financials
- 16.3.9.4 SWOT Analysis
- 16.3.10 Melrose Industries plc
 - 16.3.10.1 Company Overview
 - 16.3.10.2 Product Portfolio
 - 16.3.10.3 Financials
- 16.3.11 Plansee Group
 - 16.3.11.1 Company Overview
 - 16.3.11.2 Product Portfolio
- 16.3.12 SANTIÉ Inc. (EGIDE Group)
 - 16.3.12.1 Company Overview
 - 16.3.12.2 Product Portfolio
- 16.3.13 TISICS Ltd.
 - 16.3.13.1 Company Overview
 - 16.3.13.2 Product Portfolio

List Of Tables

LIST OF TABLES

Table 1: Global: Metal Matrix Composite Market: Key Industry Highlights, 2023 & 2032

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

Table 3: Global: Metal Matrix Composite Market Forecast: Breakup by Reinforcement Material (in Million US\$), 2024-2032

Table 4: Global: Metal Matrix Composite Market Forecast: Breakup by Reinforcement Type (in Million US\$), 2024-2032

Table 5: Global: Metal Matrix Composite Market Forecast: Breakup by Production Technology (in Million US\$), 2024-2032

Table 6: Global: Metal Matrix Composite Market Forecast: Breakup by End Use Industry (in Million US\$), 2024-2032

Table 7: Global: Metal Matrix Composite Market Forecast: Breakup by Region (in Million US\$), 2024-2032

Table 8: Global: Metal Matrix Composite Market: Competitive Structure

Table 9: Global: Metal Matrix Composite Market: Key Players

List Of Figures

LIST OF FIGURES

Figure 1: Global: Metal Matrix Composite Market: Major Drivers and Challenges

Figure 2: Global: Metal Matrix Composite Market: Sales Value (in Million US\$), 2018-2023

Figure 3: Global: Metal Matrix Composite Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 4: Global: Metal Matrix Composite Market: Breakup by Type (in %), 2023

Figure 5: Global: Metal Matrix Composite Market: Breakup by Reinforcement Material (in %), 2023

Figure 6: Global: Metal Matrix Composite Market: Breakup by Reinforcement Type (in %), 2023

Figure 7: Global: Metal Matrix Composite Market: Breakup by Production Technology (in %), 2023

Figure 8: Global: Metal Matrix Composite Market: Breakup by End Use Industry (in %), 2023

Figure 9: Global: Metal Matrix Composite Market: Breakup by Region (in %), 2023

Figure 10: Global: Metal Matrix Composite (Aluminium) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 11: Global: Metal Matrix Composite (Aluminium) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 12: Global: Metal Matrix Composite (Nickel) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 13: Global: Metal Matrix Composite (Nickel) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 14: Global: Metal Matrix Composite (Refractory) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 15: Global: Metal Matrix Composite (Refractory) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 16: Global: Metal Matrix Composite (Other Types) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 17: Global: Metal Matrix Composite (Other Types) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 18: Global: Metal Matrix Composite (Silicon Carbide) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 19: Global: Metal Matrix Composite (Silicon Carbide) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 20: Global: Metal Matrix Composite (Aluminum Oxide) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 21: Global: Metal Matrix Composite (Aluminum Oxide) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 22: Global: Metal Matrix Composite (Titanium Carbide) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 23: Global: Metal Matrix Composite (Titanium Carbide) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 24: Global: Metal Matrix Composite (Other Reinforcement Materials) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 25: Global: Metal Matrix Composite (Other Reinforcement Materials) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 26: Global: Metal Matrix Composite (Discontinuous) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 27: Global: Metal Matrix Composite (Discontinuous) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 28: Global: Metal Matrix Composite (Continuous) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 29: Global: Metal Matrix Composite (Continuous) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 30: Global: Metal Matrix Composite (Particles) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 31: Global: Metal Matrix Composite (Particles) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 32: Global: Metal Matrix Composite (Powder Metallurgy) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 33: Global: Metal Matrix Composite (Powder Metallurgy) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 34: Global: Metal Matrix Composite (Liquid Metal Infiltration) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 35: Global: Metal Matrix Composite (Liquid Metal Infiltration) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 36: Global: Metal Matrix Composite (Casting) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 37: Global: Metal Matrix Composite (Casting) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 38: Global: Metal Matrix Composite (Deposition Techniques) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 39: Global: Metal Matrix Composite (Deposition Techniques) Market Forecast:

Sales Value (in Million US\$), 2024-2032

Figure 40: Global: Metal Matrix Composite (Automotive and Locomotive) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 41: Global: Metal Matrix Composite (Automotive and Locomotive) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 42: Global: Metal Matrix Composite (Electrical and Electronics) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 43: Global: Metal Matrix Composite (Electrical and Electronics) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 44: Global: Metal Matrix Composite (Aerospace and Defense) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 45: Global: Metal Matrix Composite (Aerospace and Defense) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 46: Global: Metal Matrix Composite (Industrial) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 47: Global: Metal Matrix Composite (Industrial) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 48: Global: Metal Matrix Composite (Other End Use Industries) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 49: Global: Metal Matrix Composite (Other End Use Industries) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 50: North America: Metal Matrix Composite Market: Sales Value (in Million US\$), 2018 & 2023

Figure 51: North America: Metal Matrix Composite Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 52: United States: Metal Matrix Composite Market: Sales Value (in Million US\$), 2018 & 2023

Figure 53: United States: Metal Matrix Composite Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 54: Canada: Metal Matrix Composite Market: Sales Value (in Million US\$), 2018 & 2023

Figure 55: Canada: Metal Matrix Composite Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 56: Asia-Pacific: Metal Matrix Composite Market: Sales Value (in Million US\$), 2018 & 2023

Figure 57: Asia-Pacific: Metal Matrix Composite Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 58: China: Metal Matrix Composite Market: Sales Value (in Million US\$), 2018 & 2023

Figure 59: China: Metal Matrix Composite Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 60: Japan: Metal Matrix Composite Market: Sales Value (in Million US\$), 2018 & 2023

Figure 61: Japan: Metal Matrix Composite Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 62: India: Metal Matrix Composite Market: Sales Value (in Million US\$), 2018 & 2023

Figure 63: India: Metal Matrix Composite Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 64: South Korea: Metal Matrix Composite Market: Sales Value (in Million US\$), 2018 & 2023

Figure 65: South Korea: Metal Matrix Composite Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 66: Australia: Metal Matrix Composite Market: Sales Value (in Million US\$), 2018 & 2023

Figure 67: Australia: Metal Matrix Composite Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 68: Indonesia: Metal Matrix Composite Market: Sales Value (in Million US\$), 2018 & 2023

Figure 69: Indonesia: Metal Matrix Composite Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 70: Others: Metal Matrix Composite Market: Sales Value (in Million US\$), 2018 & 2023

Figure 71: Others: Metal Matrix Composite Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 72: Europe: Metal Matrix Composite Market: Sales Value (in Million US\$), 2018 & 2023

Figure 73: Europe: Metal Matrix Composite Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 74: Germany: Metal Matrix Composite Market: Sales Value (in Million US\$), 2018 & 2023

Figure 75: Germany: Metal Matrix Composite Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 76: France: Metal Matrix Composite Market: Sales Value (in Million US\$), 2018 & 2023

Figure 77: France: Metal Matrix Composite Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 78: United Kingdom: Metal Matrix Composite Market: Sales Value (in Million

US\$), 2018 & 2023

Figure 79: United Kingdom: Metal Matrix Composite Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 80: Italy: Metal Matrix Composite Market: Sales Value (in Million US\$), 2018 & 2023

Figure 81: Italy: Metal Matrix Composite Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 82: Spain: Metal Matrix Composite Market: Sales Value (in Million US\$), 2018 & 2023

Figure 83: Spain: Metal Matrix Composite Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 84: Russia: Metal Matrix Composite Market: Sales Value (in Million US\$), 2018 & 2023

Figure 85: Russia: Metal Matrix Composite Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 86: Others: Metal Matrix Composite Market: Sales Value (in Million US\$), 2018 & 2023

Figure 87: Others: Metal Matrix Composite Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 88: Latin America: Metal Matrix Composite Market: Sales Value (in Million US\$), 2018 & 2023

Figure 89: Latin America: Metal Matrix Composite Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 90: Brazil: Metal Matrix Composite Market: Sales Value (in Million US\$), 2018 & 2023

Figure 91: Brazil: Metal Matrix Composite Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 92: Mexico: Metal Matrix Composite Market: Sales Value (in Million US\$), 2018 & 2023

Figure 93: Mexico: Metal Matrix Composite Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 94: Others: Metal Matrix Composite Market: Sales Value (in Million US\$), 2018 & 2023

Figure 95: Others: Metal Matrix Composite Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 96: Middle East and Africa: Metal Matrix Composite Market: Sales Value (in Million US\$), 2018 & 2023

Figure 97: Middle East and Africa: Metal Matrix Composite Market: Breakup by Country (in %), 2023

Figure 98: Middle East and Africa: Metal Matrix Composite Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 99: Global: Metal Matrix Composite Industry: Drivers, Restraints, and Opportunities

Figure 100: Global: Metal Matrix Composite Industry: Value Chain Analysis

Figure 101: Global: Metal Matrix Composite Industry: Porter's Five Forces Analysis

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