

# **Metal Matrix Composite Market Size, Share & Trends Analysis Report By End-use (Ground Transportation, Electronics), By Product (Refractory, Aluminum), By Region, And Segment Forecasts, 2020 - 2027**

<https://marketpublishers.com/r/MAD6B584C4AEN.html>

Date: July 2020

Pages: 100

Price: US\$ 5,950.00 (Single User License)

ID: MAD6B584C4AEN

## **Abstracts**

This report can be delivered to the clients within a timeline of 10-12 business days post order

### **Metal Matrix Composites Market Growth & Trends**

The global metal matrix composite market size is expected to reach USD 558.5 million by 2027 registering a CAGR of 6.4%, according to a new report by Grand View Research, Inc. Rising concerns regarding environmental degradation and increasing levels of carbon emissions and pollution have created the need for the replacement of conventional dense materials with high-performance and lightweight materials in the automotive, aerospace, and other applications.

Thus, growing focus on performance enhancement, in terms of fuel efficiency and safety, is expected to be the major factor augmenting the product demand over the forecast period. These composites offer excellent strength and stiffness, higher operating temperatures, and enhanced wear resistance, owing to which, they are widely used across various end-use industries.

In addition, increased spending on R&D and extensive support offered by various governments, in terms of monetary funds and joint ventures (public-private partnerships), are anticipated to assist the manufacturers in developing newer technology and superior products. This is estimated to have a positive impact on the metal matrix composite (MMC) market growth. However, the high manufacturing costs, low yield, and complex fabrication methods are expected to pose a challenge for market growth over the

coming years.

## Metal Matrix Composites Market Report Highlights

The aluminum product segment, in terms of volume, is anticipated to witness significant growth at a CAGR of 6.3% owing to the growing demand for lightweight materials with enhanced mechanical strength in the automotive and construction industries

The aerospace segment, in terms of revenue, is expected to register a healthy CAGR of 6.7% owing to increasing use of MMCs in applications including interior, avionics ducting, and seat components

The electronics/thermal management end-user segment is anticipated to register the fastest CAGR from 2020 to 2027 on account of increasing demand for accurate and efficient components in various electronic products

Asia Pacific will be the fastest-growing regional market over the forecast period on account of growing transportation, aerospace, construction, and electronics industries in countries, such as China, India, and Japan

In July 2019, GKN Powder Metallurgy, a division of GKN plc, opened a new customer center in Bonn, Germany, which has enabled the company to cater to its customers and partners more efficiently

## Contents

### CHAPTER 1. METHODOLOGY AND SCOPE

- 1.1. Market Segmentation & Scope
- 1.2. Market Definition
- 1.3. Information Procurement
  - 1.3.1. Purchased Database
  - 1.3.2. GVR's Internal Database
  - 1.3.3. Secondary Sources & Third-Party Perspectives
  - 1.3.4. Primary Research
- 1.4. Information Analysis
  - 1.4.1. Data Analysis Models
- 1.5. Market Formulation & Data Visualization
- 1.6. Data Validation & Publishing

### CHAPTER 2. EXECUTIVE SUMMARY

- 2.1. Market Outlook
- 2.2. Segmental Outlook
- 2.3. Competitive Insights

### CHAPTER 3. MARKET VARIABLES, TRENDS, AND SCOPE

- 3.1. Penetration & Growth Prospect Mapping
- 3.2. Industry Value Chain Analysis
  - 3.2.1. Major Raw Material Trends Analysis
- 3.3. Regulatory Framework
- 3.4. Technology Framework
- 3.5. Metal Matrix Composite (MMC) Market - Market Dynamics
  - 3.5.1. Market Driver Analysis
  - 3.5.2. Market Restraint Analysis
- 3.6. Key Opportunities Prioritized
- 3.7. Business Environmental Tools Analysis: Metal Matrix Composite (MMC) Market
  - 3.7.1. Porter's Five Forces Analysis
    - 3.7.1.1. Bargaining Power of Suppliers
    - 3.7.1.2. Bargaining Power of Buyers
    - 3.7.1.3. Threat of Substitution
    - 3.7.1.4. Threat of New Entrants

- 3.7.1.5. Competitive Rivalry
- 3.7.2. PESTLE Analysis
  - 3.7.2.1. Political Landscape
  - 3.7.2.2. Economic Landscape
  - 3.7.2.3. Social Landscape
  - 3.7.2.4. Technology Landscape
  - 3.7.2.5. Environmental Landscape
  - 3.7.2.6. Legal Landscape
- 3.8. Major Strategic Deals & Alliances

## **CHAPTER 4. METAL MATRIX COMPOSITE (MMC) MARKET: PRODUCT ESTIMATES & TREND ANALYSIS**

- 4.1. Metal Matrix Composite (MMC) Market: Product Movement Analysis, 2019 & 2027
- 4.2. Aluminum
  - 4.2.1. Market estimates and forecasts, 2016 - 2027 (Tons) (USD Million)
- 4.3. Nickel
  - 4.3.1. Market estimates and forecasts, 2016 - 2027 (Tons) (USD Million)
- 4.4. Refractory
  - 4.4.1. Market estimates and forecasts, 2016 - 2027 (Tons) (USD Million)
- 4.5. Others
  - 4.5.1. Market estimates and forecasts, 2016 - 2027 (Tons) (USD Million)

## **CHAPTER 5. METAL MATRIX COMPOSITE (MMC) MARKET: END-USE ESTIMATES & TREND ANALYSIS**

- 5.1. Metal Matrix Composite (MMC) Market: End-use Movement Analysis, 2019 & 2027
- 5.2. Ground transportation
  - 5.2.1. Market estimates and forecasts, 2016 - 2027 (Tons) (USD Million)
- 5.3. Electronics/thermal management
  - 5.3.1. Market estimates and forecasts, 2016 - 2027 (Tons) (USD Million)
- 5.4. Aerospace
  - 5.4.1. Market estimates and forecasts, 2016 - 2027 (Tons) (USD Million)
- 5.5. Others
  - 5.5.1. Market estimates and forecasts, 2016 - 2027 (Tons) (USD Million)

## **CHAPTER 6. METAL MATRIX COMPOSITE (MMC) MARKET: REGIONAL ESTIMATES & TREND ANALYSIS**

- 6.1. Regional Movement Analysis & Market Share, 2019 & 2027
- 6.2. Metal Matrix Composite (MMC) market: Regional movement analysis, 2019 & 2027
- 6.3. North America
  - 6.3.1. Market estimates and forecasts, 2016 - 2027 (Tons) (USD Million)
  - 6.3.2. Market estimates and forecasts, by product, 2016 - 2027 (Tons) (USD Million)
  - 6.3.3. Market estimates and forecasts, by end-use, 2016 - 2027 (Tons) (USD Million)
- 6.4. Europe
  - 6.4.1. Market estimates and forecasts, 2016 - 2027 (Tons) (USD Million)
  - 6.4.2. Market estimates and forecasts, by product, 2016 - 2027 (Tons) (USD Million)
  - 6.4.3. Market estimates and forecasts, by end-use, 2016 - 2027 (Tons) (USD Million)
- 6.5. Asia Pacific
  - 6.5.1. Market estimates and forecasts, 2016 - 2027 (Tons) (USD Million)
  - 6.5.2. Market estimates and forecasts, by product, 2016 - 2027 (Tons) (USD Million)
  - 6.5.3. Market estimates and forecasts, by end-use, 2016 - 2027 (Tons) (USD Million)
- 6.6. Central & South America
  - 6.6.1. Market estimates and forecasts, 2016 - 2027 (Tons) (USD Million)
  - 6.6.2. Market estimates and forecasts, by product, 2016 - 2027 (Tons) (USD Million)
  - 6.6.3. Market estimates and forecasts, by end-use, 2016 - 2027 (Tons) (USD Million)
- 6.7. Middle East & Africa
  - 6.7.1. Market estimates and forecasts, 2016 - 2027 (Tons) (USD Million)
  - 6.7.2. Market estimates and forecasts, by product, 2016 - 2027 (Tons) (USD Million)
  - 6.7.3. Market estimates and forecasts, by end-use, 2016 - 2027 (Tons) (USD Million)

## **CHAPTER 7. COMPETITIVE LANDSCAPE**

- 7.1. Key Global Players & Recent Developments & Their Impact on the Industry
- 7.2. Participant Categorization
- 7.3. Vendor Landscape
- 7.4. Company Market Position Analysis
- 7.5. Company Dashboard Analysis
- 7.6. Key Global Players & Recent Developments & Their Impact on the Industry

## **CHAPTER 8. COMPANY PROFILES**

- 8.1. Materion Corporation
  - 8.1.1. Company overview
  - 8.1.2. Financial performance
  - 8.1.3. Product benchmarking
  - 8.1.4. Strategic initiatives

## 8.2. GKN plc

- 8.2.1. Company overview
- 8.2.2. Financial performance
- 8.2.3. Product benchmarking
- 8.2.4. Strategic initiatives

## 8.3. 3M

- 8.3.1. Company overview
- 8.3.2. Financial performance
- 8.3.3. Product benchmarking
- 8.3.4. Strategic initiatives

## 8.4. ADMA Products, Inc.

- 8.4.1. Company overview
- 8.4.2. Financial performance
- 8.4.3. Product benchmarking
- 8.4.4. Strategic initiatives

## 8.5. TISICS Ltd.

- 8.5.1. Company overview
- 8.5.2. Financial performance
- 8.5.3. Product benchmarking
- 8.5.4. Strategic initiatives

## 8.6. Thermal Transfer Composites LLC

- 8.6.1. Company overview
- 8.6.2. Financial performance
- 8.6.3. Product benchmarking
- 8.6.4. Strategic initiatives

## 8.7. DWA Aluminum Composites USA, Inc.

- 8.7.1. Company overview
- 8.7.2. Financial performance
- 8.7.3. Product benchmarking
- 8.7.4. Strategic initiatives

## 8.8. CPS Technologies Corporation

- 8.8.1. Company overview
- 8.8.2. Financial performance
- 8.8.3. Product benchmarking
- 8.8.4. Strategic initiatives

## 8.9. Deutsche Edelstahlwerke GmbH

- 8.9.1. Company overview
- 8.9.2. Financial performance
- 8.9.3. Product benchmarking

- 8.9.4. Strategic initiatives
- 8.10. Plansee Group
  - 8.10.1. Company overview
  - 8.10.2. Financial performance
  - 8.10.3. Product benchmarking
  - 8.10.4. Strategic initiatives
- 8.11. Sandvik AB
  - 8.11.1. Company overview
  - 8.11.2. Financial performance
  - 8.11.3. Product benchmarking
  - 8.11.4. Strategic initiatives
- 8.12. Mi-Tech Tungsten Metals, LLC
  - 8.12.1. Company overview
  - 8.12.2. Financial performance
  - 8.12.3. Product benchmarking
  - 8.12.4. Strategic initiatives
- 8.13. DAT Alloytech Company Limited
  - 8.13.1. Company overview
  - 8.13.2. Financial performance
  - 8.13.3. Product benchmarking
  - 8.13.4. Strategic initiatives
- 8.14. AMETEK Specialty Metal Products
  - 8.14.1. Company overview
  - 8.14.2. Financial performance
  - 8.14.3. Product benchmarking
  - 8.14.4. Strategic initiatives
- 8.15. CeramTec
  - 8.15.1. Company overview
  - 8.15.2. Financial performance
  - 8.15.3. Product benchmarking
  - 8.15.4. Strategic initiatives
- 8.16. Santier, Inc.
  - 8.16.1. Company overview
  - 8.16.2. Financial performance
  - 8.16.3. Product benchmarking
  - 8.16.4. Strategic initiatives

## List Of Tables

### LIST OF TABLES

Table 1 Metal matrix composite (MMC) market estimates and forecasts, by aluminum, 2016 - 2027 (Tons) (USD Million)

Table 2 Metal matrix composite (MMC) market estimates and forecasts, by nickel, 2016 - 2027 (Tons) (USD Million)

Table 3 Metal matrix composite (MMC) market estimates and forecasts, by refractory, 2016 - 2027 (Tons) (USD Million)

Table 4 Metal matrix composite (MMC) market estimates and forecasts, by others, 2016 - 2027 (Tons) (USD Million)

Table 5 Metal matrix composite (MMC) market estimates and forecasts, by ground transportation, 2016 - 2027 (Tons) (USD Million)

Table 6 Metal matrix composite (MMC) market estimates and forecasts, by electronics/thermal management, 2016 - 2027 (Tons) (USD Million)

Table 7 Metal matrix composite (MMC) market estimates and forecasts, by aerospace, 2016 - 2027 (Tons) (USD Million)

Table 8 Metal matrix composite (MMC) market estimates and forecasts, by Others, 2016 - 2027 (Tons) (USD Million)

Table 9 North America metal matrix composite (MMC) market estimates and forecasts, 2016 - 2027 (Tons) (USD Million)

Table 10 North America metal matrix composite (MMC) market estimates and forecasts, by product, 2016 - 2027 (Tons)

Table 11 North America metal matrix composite (MMC) market estimates and forecasts, by product, 2016 - 2027 (USD Million)

Table 12 North America metal matrix composite (MMC) market estimates and forecasts, by end-use, 2016 - 2027 (Tons)

Table 13 North America metal matrix composite (MMC) market estimates and forecasts, by end-use, 2016 - 2027 (USD Million)

Table 14 Europe metal matrix composite (MMC) market estimates and forecasts, 2016 - 2027 (Tons) (USD Million)

Table 15 Europe metal matrix composite (MMC) market estimates and forecasts, by product, 2016 - 2027 (Tons)

Table 16 Europe metal matrix composite (MMC) market estimates and forecasts, by product, 2016 - 2027 (USD Million)

Table 17 Europe metal matrix composite (MMC) market estimates and forecasts, by end-use, 2016 - 2027 (Tons)

Table 18 Europe metal matrix composite (MMC) market estimates and forecasts, by



end-use, 2016 - 2027 (USD Million)

Table 19 Asia Pacific metal matrix composite (MMC) market estimates and forecasts, 2016 - 2027 (Tons) (USD Million)

Table 20 Asia Pacific metal matrix composite (MMC) market estimates and forecasts, by product, 2016 - 2027 (Tons)

Table 21 Asia Pacific metal matrix composite (MMC) market estimates and forecasts, by product, 2016 - 2027 (USD Million)

Table 22 Asia Pacific metal matrix composite (MMC) market estimates and forecasts, by end-use, 2016 - 2027 (Tons)

Table 23 Asia Pacific metal matrix composite (MMC) market estimates and forecasts, by end-use, 2016 - 2027 (USD Million)

Table 24 Central & South America metal matrix composite (MMC) market estimates and forecasts, 2016 - 2027 (Tons) (USD Million)

Table 25 Central & South America metal matrix composite (MMC) market estimates and forecasts, by product, 2016 - 2027 (Tons)

Table 26 Central & South America metal matrix composite (MMC) market estimates and forecasts, by product, 2016 - 2027 (USD Million)

Table 27 Central & South America metal matrix composite (MMC) market estimates and forecasts, by end-use, 2016 - 2027 (Tons)

Table 28 Central & South America metal matrix composite (MMC) market estimates and forecasts, by end-use, 2016 - 2027 (USD Million)

Table 29 Middle East & Africa metal matrix composite (MMC) market estimates and forecasts, 2016 - 2027 (Tons) (USD Million)

Table 30 Middle East & Africa metal matrix composite (MMC) market estimates and forecasts, by product, 2016 - 2027 (Tons)

Table 31 Middle East & Africa metal matrix composite (MMC) market estimates and forecasts, by product, 2016 - 2027 (USD Million)

Table 32 Middle East & Africa metal matrix composite (MMC) market estimates and forecasts, by end-use, 2016 - 2027 (Tons)

Table 33 Middle East & Africa metal matrix composite (MMC) market estimates and forecasts, by end-use, 2016 - 2027 (USD Million)

## List Of Figures

### LIST OF FIGURES

- Fig. 1 Information Procurement
- Fig. 2 Primary Research Pattern
- Fig. 3 Primary Research Process
- Fig. 4 Market research approaches - Bottom-Up Approach
- Fig. 5 Market research approaches - Top-Down Approach
- Fig. 6 Market research approaches - Combined Approach
- Fig. 7 Market Outlook
- Fig. 8 Segment Outlook
- Fig. 9 Competitive Insights
- Fig. 10 Metal Matrix Composite (MMC) Market - Market Segmentation
- Fig. 11 Global MMC market estimates and forecast, 2016 - 2027, (Tons) (USD Million)
- Fig. 12 Metal Matrix Composite Market - Value Chain Analysis
- Fig. 13 Aluminum price forecast from 2014 to 2025 (USD/mt)
- Fig. 14 Global primary aluminum production, 2019 ('000 MT)
- Fig. 15 Aluminum consumption in North America (%)
- Fig. 16 Nickel price forecast from 2014 to 2025 (USD/mt)
- Fig. 17 End-use of nickel in various end-use sectors (%)
- Fig. 18 Metal matrix composite (MMC) market dynamics
- Fig. 19 Market driver analysis
- Fig. 20 Number of passengers carried through air transport (Billion)
- Fig. 21 Global fossil CO2 emissions, 2011 to 2018 (Mt/year)
- Fig. 22 Market restraint analysis
- Fig. 23 Key opportunities prioritized
- Fig. 24 Metal Matrix Composite (MMC) Market: Product Movement Analysis & Market Share, 2019 & 2027
- Fig. 25 Metal Matrix Composite (MMC) Market: End-Use Movement Analysis & Market Share, 2019 & 2027
- Fig. 26 Metal Matrix Composite (MMC) Market: Regional Movement Analysis & Market Share, 2019 & 2027
- Fig. 27 Participant Categorization
- Fig. 28 Competitive Dashboard Analysis

## I would like to order

Product name: Metal Matrix Composite Market Size, Share & Trends Analysis Report By End-use (Ground Transportation, Electronics), By Product (Refractory, Aluminum), By Region, And Segment Forecasts, 2020 - 2027

Product link: <https://marketpublishers.com/r/MAD6B584C4AEN.html>

Price: US\$ 5,950.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/MAD6B584C4AEN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below

and fax the completed form to +44 20 7900 3970