

# Global Engineering Acoustic Metamaterial Market Growth 2026-2032

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## Abstracts

The global Engineering Acoustic Metamaterial market size is predicted to grow from US\$ 118 million in 2025 to US\$ 182 million in 2032; it is expected to grow at a CAGR of 5.0% from 2026 to 2032.

Engineering acoustic metamaterials are artificially structured materials designed and optimized for practical, real-world noise and vibration control applications, rather than purely theoretical or laboratory demonstrations. They use sub-wavelength engineered structures to manipulate sound waves in ways that conventional materials cannot, especially at low frequencies. In engineering contexts, acoustic metamaterials are typically designed to be scalable, manufacturable, mechanically robust, and cost-effective, enabling integration into buildings, industrial equipment, transportation systems, and infrastructure. By exploiting mechanisms such as local resonance, Bragg scattering, or labyrinthine sound paths, engineering acoustic metamaterials can achieve thin, lightweight, and high-performance sound absorption, insulation, or vibration isolation where traditional foams, barriers, or dampers are ineffective. In 2025, global Engineering Acoustic Metamaterial production reached approximately 24 k tons, with an average global market price of around US\$5000 per ton. The production capacity for Engineering Acoustic Metamaterial in 2025 was approximately 250 tons. The typical gross profit margin for Engineering Acoustic Metamaterial is between 20% and 40%.

The Engineering Acoustic Metamaterial market focuses on advanced, engineered materials designed to control, absorb, or manipulate sound and vibration in practical engineering environments. These materials are increasingly adopted in building acoustics, industrial noise and vibration control, transportation (rail, automotive, aerospace), and energy and machinery systems, where conventional soundproofing solutions are bulky or ineffective at low frequencies. Driven by stricter noise regulations,

demand for lightweight and compact designs, and advances in structural design and manufacturing (e.g., lattice structures and additive manufacturing), the market is transitioning from laboratory research to scalable industrial applications.

LP Information, Inc. (LPI) ' newest research report, the 'Engineering Acoustic Metamaterial Industry Forecast' looks at past sales and reviews total world Engineering Acoustic Metamaterial sales in 2025, providing a comprehensive analysis by region and market sector of projected Engineering Acoustic Metamaterial sales for 2026 through 2032. With Engineering Acoustic Metamaterial sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Engineering Acoustic Metamaterial industry.

This Insight Report provides a comprehensive analysis of the global Engineering Acoustic Metamaterial landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Engineering Acoustic Metamaterial portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Engineering Acoustic Metamaterial market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Engineering Acoustic Metamaterial and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Engineering Acoustic Metamaterial.

This report presents a comprehensive overview, market shares, and growth opportunities of Engineering Acoustic Metamaterial market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Locally Resonant Acoustic Metamaterials?LRAM?

Hybrid Acoustic Metamaterials

### Segmentation by Shape:

1D Acoustic Metamaterials

2D Acoustic Metamaterials

3D Acoustic Metamaterials

### Segmentation by Manufacturing Process:

Traditional Machining Type

Additive Manufacturing Type

### Segmentation by Application:

Architecture and Civil Engineering

Rail Transportation

Automotive and Mobile Equipment

Aerospace

Industrial Equipment

Others

### This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

## APAC

China

Japan

Korea

Southeast Asia

India

Australia

## Europe

Germany

France

UK

Italy

Russia

## Middle East & Africa

Egypt

South Africa

Israel

Turkey

## GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Merford

Metasonixx

Lios Group

MetAcoustic

Acoustic Metamaterials Group (AMG)

Acentech

Nanjing Huaqin Photoacoustic Technology

Shenzhen Shenchuang Advanced Materials Research Institute

## Key Questions Addressed in this Report

What is the 10-year outlook for the global Engineering Acoustic Metamaterial market?

What factors are driving Engineering Acoustic Metamaterial market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Engineering Acoustic Metamaterial market opportunities vary by end market size?

How does Engineering Acoustic Metamaterial break out by Type, by

Application?

## Contents

### 1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

### 2 EXECUTIVE SUMMARY

#### 2.1 World Market Overview

- 2.1.1 Global Engineering Acoustic Metamaterial Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for Engineering Acoustic Metamaterial by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for Engineering Acoustic Metamaterial by Country/Region, 2021, 2025 & 2032

#### 2.2 Engineering Acoustic Metamaterial Segment by Type

- 2.2.1 Locally Resonant Acoustic Metamaterials?LRAM?
- 2.2.2 Hybrid Acoustic Metamaterials
- 2.2.3 Engineering Acoustic Metamaterial Sales by Type
  - 2.2.3.1 Global Engineering Acoustic Metamaterial Sales Market Share by Type (2021-2026)
  - 2.2.3.2 Global Engineering Acoustic Metamaterial Revenue and Market Share by Type (2021-2026)
  - 2.2.3.3 Global Engineering Acoustic Metamaterial Sale Price by Type (2021-2026)

#### 2.3 Engineering Acoustic Metamaterial Segment by Shape

- 2.3.1 1D Acoustic Metamaterials
- 2.3.2 2D Acoustic Metamaterials
- 2.3.3 3D Acoustic Metamaterials
- 2.3.4 Engineering Acoustic Metamaterial Sales by Shape
  - 2.3.4.1 Global Engineering Acoustic Metamaterial Sales Market Share by Shape (2021-2026)
  - 2.3.4.2 Global Engineering Acoustic Metamaterial Revenue and Market Share by Shape (2021-2026)

- 2.3.4.3 Global Engineering Acoustic Metamaterial Sale Price by Shape (2021-2026)
- 2.4 Engineering Acoustic Metamaterial Segment by Manufacturing Process
  - 2.4.1 Traditional Machining Type
  - 2.4.2 Additive Manufacturing Type
  - 2.4.3 Engineering Acoustic Metamaterial Sales by Manufacturing Process
    - 2.4.3.1 Global Engineering Acoustic Metamaterial Sales Market Share by Manufacturing Process (2021-2026)
    - 2.4.3.2 Global Engineering Acoustic Metamaterial Revenue and Market Share by Manufacturing Process (2021-2026)
    - 2.4.3.3 Global Engineering Acoustic Metamaterial Sale Price by Manufacturing Process (2021-2026)
- 2.5 Engineering Acoustic Metamaterial Segment by Application
  - 2.5.1 Architecture and Civil Engineering
  - 2.5.2 Rail Transportation
  - 2.5.3 Automotive and Mobile Equipment
  - 2.5.4 Aerospace
  - 2.5.5 Industrial Equipment
  - 2.5.6 Others
  - 2.5.7 Engineering Acoustic Metamaterial Sales by Application
    - 2.5.7.1 Global Engineering Acoustic Metamaterial Sale Market Share by Application (2021-2026)
    - 2.5.7.2 Global Engineering Acoustic Metamaterial Revenue and Market Share by Application (2021-2026)
    - 2.5.7.3 Global Engineering Acoustic Metamaterial Sale Price by Application (2021-2026)

### **3 GLOBAL BY COMPANY**

- 3.1 Global Engineering Acoustic Metamaterial Breakdown Data by Company
  - 3.1.1 Global Engineering Acoustic Metamaterial Annual Sales by Company (2021-2026)
  - 3.1.2 Global Engineering Acoustic Metamaterial Sales Market Share by Company (2021-2026)
- 3.2 Global Engineering Acoustic Metamaterial Annual Revenue by Company (2021-2026)
  - 3.2.1 Global Engineering Acoustic Metamaterial Revenue by Company (2021-2026)
  - 3.2.2 Global Engineering Acoustic Metamaterial Revenue Market Share by Company (2021-2026)
- 3.3 Global Engineering Acoustic Metamaterial Sale Price by Company

3.4 Key Manufacturers Engineering Acoustic Metamaterial Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Engineering Acoustic Metamaterial Product Location Distribution

3.4.2 Players Engineering Acoustic Metamaterial Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

## **4 WORLD HISTORIC REVIEW FOR ENGINEERING ACOUSTIC METAMATERIAL BY GEOGRAPHIC REGION**

4.1 World Historic Engineering Acoustic Metamaterial Market Size by Geographic Region (2021-2026)

4.1.1 Global Engineering Acoustic Metamaterial Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Engineering Acoustic Metamaterial Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Engineering Acoustic Metamaterial Market Size by Country/Region (2021-2026)

4.2.1 Global Engineering Acoustic Metamaterial Annual Sales by Country/Region (2021-2026)

4.2.2 Global Engineering Acoustic Metamaterial Annual Revenue by Country/Region (2021-2026)

4.3 Americas Engineering Acoustic Metamaterial Sales Growth

4.4 APAC Engineering Acoustic Metamaterial Sales Growth

4.5 Europe Engineering Acoustic Metamaterial Sales Growth

4.6 Middle East & Africa Engineering Acoustic Metamaterial Sales Growth

## **5 AMERICAS**

5.1 Americas Engineering Acoustic Metamaterial Sales by Country

5.1.1 Americas Engineering Acoustic Metamaterial Sales by Country (2021-2026)

5.1.2 Americas Engineering Acoustic Metamaterial Revenue by Country (2021-2026)

5.2 Americas Engineering Acoustic Metamaterial Sales by Type (2021-2026)

5.3 Americas Engineering Acoustic Metamaterial Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

## **6 APAC**

6.1 APAC Engineering Acoustic Metamaterial Sales by Region

6.1.1 APAC Engineering Acoustic Metamaterial Sales by Region (2021-2026)

6.1.2 APAC Engineering Acoustic Metamaterial Revenue by Region (2021-2026)

6.2 APAC Engineering Acoustic Metamaterial Sales by Type (2021-2026)

6.3 APAC Engineering Acoustic Metamaterial Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

## **7 EUROPE**

7.1 Europe Engineering Acoustic Metamaterial by Country

7.1.1 Europe Engineering Acoustic Metamaterial Sales by Country (2021-2026)

7.1.2 Europe Engineering Acoustic Metamaterial Revenue by Country (2021-2026)

7.2 Europe Engineering Acoustic Metamaterial Sales by Type (2021-2026)

7.3 Europe Engineering Acoustic Metamaterial Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

## **8 MIDDLE EAST & AFRICA**

8.1 Middle East & Africa Engineering Acoustic Metamaterial by Country

8.1.1 Middle East & Africa Engineering Acoustic Metamaterial Sales by Country (2021-2026)

8.1.2 Middle East & Africa Engineering Acoustic Metamaterial Revenue by Country (2021-2026)

8.2 Middle East & Africa Engineering Acoustic Metamaterial Sales by Type (2021-2026)

8.3 Middle East & Africa Engineering Acoustic Metamaterial Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

## **9 MARKET DRIVERS, CHALLENGES AND TRENDS**

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

## **10 MANUFACTURING COST STRUCTURE ANALYSIS**

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Engineering Acoustic Metamaterial

10.3 Manufacturing Process Analysis of Engineering Acoustic Metamaterial

10.4 Industry Chain Structure of Engineering Acoustic Metamaterial

## **11 MARKETING, DISTRIBUTORS AND CUSTOMER**

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Engineering Acoustic Metamaterial Distributors

11.3 Engineering Acoustic Metamaterial Customer

## **12 WORLD FORECAST REVIEW FOR ENGINEERING ACOUSTIC METAMATERIAL BY GEOGRAPHIC REGION**

12.1 Global Engineering Acoustic Metamaterial Market Size Forecast by Region

12.1.1 Global Engineering Acoustic Metamaterial Forecast by Region (2027-2032)

12.1.2 Global Engineering Acoustic Metamaterial Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global Engineering Acoustic Metamaterial Forecast by Type (2027-2032)

12.7 Global Engineering Acoustic Metamaterial Forecast by Application (2027-2032)

## **13 KEY PLAYERS ANALYSIS**

13.1 Merford

13.1.1 Merford Company Information

13.1.2 Merford Engineering Acoustic Metamaterial Product Portfolios and Specifications

13.1.3 Merford Engineering Acoustic Metamaterial Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 Merford Main Business Overview

13.1.5 Merford Latest Developments

13.2 Metasonixx

13.2.1 Metasonixx Company Information

13.2.2 Metasonixx Engineering Acoustic Metamaterial Product Portfolios and Specifications

13.2.3 Metasonixx Engineering Acoustic Metamaterial Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Metasonixx Main Business Overview

13.2.5 Metasonixx Latest Developments

13.3 Lios Group

13.3.1 Lios Group Company Information

13.3.2 Lios Group Engineering Acoustic Metamaterial Product Portfolios and Specifications

13.3.3 Lios Group Engineering Acoustic Metamaterial Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 Lios Group Main Business Overview

13.3.5 Lios Group Latest Developments

13.4 MetAcoustic

13.4.1 MetAcoustic Company Information

13.4.2 MetAcoustic Engineering Acoustic Metamaterial Product Portfolios and Specifications

13.4.3 MetAcoustic Engineering Acoustic Metamaterial Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 MetAcoustic Main Business Overview

13.4.5 MetAcoustic Latest Developments

### 13.5 Acoustic Metamaterials Group (AMG)

13.5.1 Acoustic Metamaterials Group (AMG) Company Information

13.5.2 Acoustic Metamaterials Group (AMG) Engineering Acoustic Metamaterial Product Portfolios and Specifications

13.5.3 Acoustic Metamaterials Group (AMG) Engineering Acoustic Metamaterial Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 Acoustic Metamaterials Group (AMG) Main Business Overview

13.5.5 Acoustic Metamaterials Group (AMG) Latest Developments

### 13.6 Acentech

13.6.1 Acentech Company Information

13.6.2 Acentech Engineering Acoustic Metamaterial Product Portfolios and Specifications

13.6.3 Acentech Engineering Acoustic Metamaterial Sales, Revenue, Price and Gross Margin (2021-2026)

13.6.4 Acentech Main Business Overview

13.6.5 Acentech Latest Developments

### 13.7 Nanjing Huaqin Photoacoustic Technology

13.7.1 Nanjing Huaqin Photoacoustic Technology Company Information

13.7.2 Nanjing Huaqin Photoacoustic Technology Engineering Acoustic Metamaterial Product Portfolios and Specifications

13.7.3 Nanjing Huaqin Photoacoustic Technology Engineering Acoustic Metamaterial Sales, Revenue, Price and Gross Margin (2021-2026)

13.7.4 Nanjing Huaqin Photoacoustic Technology Main Business Overview

13.7.5 Nanjing Huaqin Photoacoustic Technology Latest Developments

### 13.8 Shenzhen Shenchuang Advanced Materials Research Institute

13.8.1 Shenzhen Shenchuang Advanced Materials Research Institute Company Information

13.8.2 Shenzhen Shenchuang Advanced Materials Research Institute Engineering Acoustic Metamaterial Product Portfolios and Specifications

13.8.3 Shenzhen Shenchuang Advanced Materials Research Institute Engineering Acoustic Metamaterial Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 Shenzhen Shenchuang Advanced Materials Research Institute Main Business Overview

13.8.5 Shenzhen Shenchuang Advanced Materials Research Institute Latest Developments

## 14 RESEARCH FINDINGS AND CONCLUSION



## List Of Tables

### LIST OF TABLES

Table 1. Engineering Acoustic Metamaterial Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Engineering Acoustic Metamaterial Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Locally Resonant Acoustic Metamaterials?LRAM?

Table 4. Major Players of Hybrid Acoustic Metamaterials

Table 5. Global Engineering Acoustic Metamaterial Sales by Type (2021-2026) & (Kilotons)

Table 6. Global Engineering Acoustic Metamaterial Sales Market Share by Type (2021-2026)

Table 7. Global Engineering Acoustic Metamaterial Revenue by Type (2021-2026) & (\$ million)

Table 8. Global Engineering Acoustic Metamaterial Revenue Market Share by Type (2021-2026)

Table 9. Global Engineering Acoustic Metamaterial Sale Price by Type (2021-2026) & (US\$/Ton)

Table 10. Major Players of 1D Acoustic Metamaterials

Table 11. Major Players of 2D Acoustic Metamaterials

Table 12. Major Players of 3D Acoustic Metamaterials

Table 13. Global Engineering Acoustic Metamaterial Sales by Shape (2021-2026) & (Kilotons)

Table 14. Global Engineering Acoustic Metamaterial Sales Market Share by Shape (2021-2026)

Table 15. Global Engineering Acoustic Metamaterial Revenue by Shape (2021-2026) & (\$ million)

Table 16. Global Engineering Acoustic Metamaterial Revenue Market Share by Shape (2021-2026)

Table 17. Global Engineering Acoustic Metamaterial Sale Price by Shape (2021-2026) & (US\$/Ton)

Table 18. Major Players of Traditional Machining Type

Table 19. Major Players of Additive Manufacturing Type

Table 20. Global Engineering Acoustic Metamaterial Sales by Manufacturing Process (2021-2026) & (Kilotons)

Table 21. Global Engineering Acoustic Metamaterial Sales Market Share by Manufacturing Process (2021-2026)

- Table 22. Global Engineering Acoustic Metamaterial Revenue by Manufacturing Process (2021-2026) & (\$ million)
- Table 23. Global Engineering Acoustic Metamaterial Revenue Market Share by Manufacturing Process (2021-2026)
- Table 24. Global Engineering Acoustic Metamaterial Sale Price by Manufacturing Process (2021-2026) & (US\$/Ton)
- Table 25. Global Engineering Acoustic Metamaterial Sale by Application (2021-2026) & (Kilotons)
- Table 26. Global Engineering Acoustic Metamaterial Sale Market Share by Application (2021-2026)
- Table 27. Global Engineering Acoustic Metamaterial Revenue by Application (2021-2026) & (\$ million)
- Table 28. Global Engineering Acoustic Metamaterial Revenue Market Share by Application (2021-2026)
- Table 29. Global Engineering Acoustic Metamaterial Sale Price by Application (2021-2026) & (US\$/Ton)
- Table 30. Global Engineering Acoustic Metamaterial Sales by Company (2021-2026) & (Kilotons)
- Table 31. Global Engineering Acoustic Metamaterial Sales Market Share by Company (2021-2026)
- Table 32. Global Engineering Acoustic Metamaterial Revenue by Company (2021-2026) & (\$ millions)
- Table 33. Global Engineering Acoustic Metamaterial Revenue Market Share by Company (2021-2026)
- Table 34. Global Engineering Acoustic Metamaterial Sale Price by Company (2021-2026) & (US\$/Ton)
- Table 35. Key Manufacturers Engineering Acoustic Metamaterial Producing Area Distribution and Sales Area
- Table 36. Players Engineering Acoustic Metamaterial Products Offered
- Table 37. Engineering Acoustic Metamaterial Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
- Table 38. New Products and Potential Entrants
- Table 39. Market M&A Activity & Strategy
- Table 40. Global Engineering Acoustic Metamaterial Sales by Geographic Region (2021-2026) & (Kilotons)
- Table 41. Global Engineering Acoustic Metamaterial Sales Market Share Geographic Region (2021-2026)
- Table 42. Global Engineering Acoustic Metamaterial Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 43. Global Engineering Acoustic Metamaterial Revenue Market Share by Geographic Region (2021-2026)

Table 44. Global Engineering Acoustic Metamaterial Sales by Country/Region (2021-2026) & (Kilotons)

Table 45. Global Engineering Acoustic Metamaterial Sales Market Share by Country/Region (2021-2026)

Table 46. Global Engineering Acoustic Metamaterial Revenue by Country/Region (2021-2026) & (\$ millions)

Table 47. Global Engineering Acoustic Metamaterial Revenue Market Share by Country/Region (2021-2026)

Table 48. Americas Engineering Acoustic Metamaterial Sales by Country (2021-2026) & (Kilotons)

Table 49. Americas Engineering Acoustic Metamaterial Sales Market Share by Country (2021-2026)

Table 50. Americas Engineering Acoustic Metamaterial Revenue by Country (2021-2026) & (\$ millions)

Table 51. Americas Engineering Acoustic Metamaterial Sales by Type (2021-2026) & (Kilotons)

Table 52. Americas Engineering Acoustic Metamaterial Sales by Application (2021-2026) & (Kilotons)

Table 53. APAC Engineering Acoustic Metamaterial Sales by Region (2021-2026) & (Kilotons)

Table 54. APAC Engineering Acoustic Metamaterial Sales Market Share by Region (2021-2026)

Table 55. APAC Engineering Acoustic Metamaterial Revenue by Region (2021-2026) & (\$ millions)

Table 56. APAC Engineering Acoustic Metamaterial Sales by Type (2021-2026) & (Kilotons)

Table 57. APAC Engineering Acoustic Metamaterial Sales by Application (2021-2026) & (Kilotons)

Table 58. Europe Engineering Acoustic Metamaterial Sales by Country (2021-2026) & (Kilotons)

Table 59. Europe Engineering Acoustic Metamaterial Revenue by Country (2021-2026) & (\$ millions)

Table 60. Europe Engineering Acoustic Metamaterial Sales by Type (2021-2026) & (Kilotons)

Table 61. Europe Engineering Acoustic Metamaterial Sales by Application (2021-2026) & (Kilotons)

Table 62. Middle East & Africa Engineering Acoustic Metamaterial Sales by Country

(2021-2026) & (Kilotons)

Table 63. Middle East & Africa Engineering Acoustic Metamaterial Revenue Market Share by Country (2021-2026)

Table 64. Middle East & Africa Engineering Acoustic Metamaterial Sales by Type (2021-2026) & (Kilotons)

Table 65. Middle East & Africa Engineering Acoustic Metamaterial Sales by Application (2021-2026) & (Kilotons)

Table 66. Key Market Drivers & Growth Opportunities of Engineering Acoustic Metamaterial

Table 67. Key Market Challenges & Risks of Engineering Acoustic Metamaterial

Table 68. Key Industry Trends of Engineering Acoustic Metamaterial

Table 69. Engineering Acoustic Metamaterial Raw Material

Table 70. Key Suppliers of Raw Materials

Table 71. Engineering Acoustic Metamaterial Distributors List

Table 72. Engineering Acoustic Metamaterial Customer List

Table 73. Global Engineering Acoustic Metamaterial Sales Forecast by Region (2027-2032) & (Kilotons)

Table 74. Global Engineering Acoustic Metamaterial Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 75. Americas Engineering Acoustic Metamaterial Sales Forecast by Country (2027-2032) & (Kilotons)

Table 76. Americas Engineering Acoustic Metamaterial Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 77. APAC Engineering Acoustic Metamaterial Sales Forecast by Region (2027-2032) & (Kilotons)

Table 78. APAC Engineering Acoustic Metamaterial Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 79. Europe Engineering Acoustic Metamaterial Sales Forecast by Country (2027-2032) & (Kilotons)

Table 80. Europe Engineering Acoustic Metamaterial Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 81. Middle East & Africa Engineering Acoustic Metamaterial Sales Forecast by Country (2027-2032) & (Kilotons)

Table 82. Middle East & Africa Engineering Acoustic Metamaterial Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 83. Global Engineering Acoustic Metamaterial Sales Forecast by Type (2027-2032) & (Kilotons)

Table 84. Global Engineering Acoustic Metamaterial Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 85. Global Engineering Acoustic Metamaterial Sales Forecast by Application (2027-2032) & (Kilotons)

Table 86. Global Engineering Acoustic Metamaterial Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 87. Merford Basic Information, Engineering Acoustic Metamaterial Manufacturing Base, Sales Area and Its Competitors

Table 88. Merford Engineering Acoustic Metamaterial Product Portfolios and Specifications

Table 89. Merford Engineering Acoustic Metamaterial Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 90. Merford Main Business

Table 91. Merford Latest Developments

Table 92. Metasonixx Basic Information, Engineering Acoustic Metamaterial Manufacturing Base, Sales Area and Its Competitors

Table 93. Metasonixx Engineering Acoustic Metamaterial Product Portfolios and Specifications

Table 94. Metasonixx Engineering Acoustic Metamaterial Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 95. Metasonixx Main Business

Table 96. Metasonixx Latest Developments

Table 97. Lios Group Basic Information, Engineering Acoustic Metamaterial Manufacturing Base, Sales Area and Its Competitors

Table 98. Lios Group Engineering Acoustic Metamaterial Product Portfolios and Specifications

Table 99. Lios Group Engineering Acoustic Metamaterial Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 100. Lios Group Main Business

Table 101. Lios Group Latest Developments

Table 102. MetAcoustic Basic Information, Engineering Acoustic Metamaterial Manufacturing Base, Sales Area and Its Competitors

Table 103. MetAcoustic Engineering Acoustic Metamaterial Product Portfolios and Specifications

Table 104. MetAcoustic Engineering Acoustic Metamaterial Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 105. MetAcoustic Main Business

Table 106. MetAcoustic Latest Developments

Table 107. Acoustic Metamaterials Group (AMG) Basic Information, Engineering Acoustic Metamaterial Manufacturing Base, Sales Area and Its Competitors

Table 108. Acoustic Metamaterials Group (AMG) Engineering Acoustic Metamaterial

## Product Portfolios and Specifications

Table 109. Acoustic Metamaterials Group (AMG) Engineering Acoustic Metamaterial Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 110. Acoustic Metamaterials Group (AMG) Main Business

Table 111. Acoustic Metamaterials Group (AMG) Latest Developments

Table 112. Acentech Basic Information, Engineering Acoustic Metamaterial Manufacturing Base, Sales Area and Its Competitors

Table 113. Acentech Engineering Acoustic Metamaterial Product Portfolios and Specifications

Table 114. Acentech Engineering Acoustic Metamaterial Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 115. Acentech Main Business

Table 116. Acentech Latest Developments

Table 117. Nanjing Huaqin Photoacoustic Technology Basic Information, Engineering Acoustic Metamaterial Manufacturing Base, Sales Area and Its Competitors

Table 118. Nanjing Huaqin Photoacoustic Technology Engineering Acoustic Metamaterial Product Portfolios and Specifications

Table 119. Nanjing Huaqin Photoacoustic Technology Engineering Acoustic Metamaterial Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 120. Nanjing Huaqin Photoacoustic Technology Main Business

Table 121. Nanjing Huaqin Photoacoustic Technology Latest Developments

Table 122. Shenzhen Shenchuang Advanced Materials Research Institute Basic Information, Engineering Acoustic Metamaterial Manufacturing Base, Sales Area and Its Competitors

Table 123. Shenzhen Shenchuang Advanced Materials Research Institute Engineering Acoustic Metamaterial Product Portfolios and Specifications

Table 124. Shenzhen Shenchuang Advanced Materials Research Institute Engineering Acoustic Metamaterial Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 125. Shenzhen Shenchuang Advanced Materials Research Institute Main Business

Table 126. Shenzhen Shenchuang Advanced Materials Research Institute Latest Developments

## List Of Figures

### LIST OF FIGURES

- Figure 1. Picture of Engineering Acoustic Metamaterial
- Figure 2. Engineering Acoustic Metamaterial Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Engineering Acoustic Metamaterial Sales Growth Rate 2021-2032 (Kilotons)
- Figure 7. Global Engineering Acoustic Metamaterial Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Engineering Acoustic Metamaterial Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Engineering Acoustic Metamaterial Sales Market Share by Country/Region (2025)
- Figure 10. Engineering Acoustic Metamaterial Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Locally Resonant Acoustic Metamaterials?LRAM?
- Figure 12. Product Picture of Hybrid Acoustic Metamaterials
- Figure 13. Global Engineering Acoustic Metamaterial Sales Market Share by Type in 2026
- Figure 14. Global Engineering Acoustic Metamaterial Revenue Market Share by Type (2021-2026)
- Figure 15. Product Picture of 1D Acoustic Metamaterials
- Figure 16. Product Picture of 2D Acoustic Metamaterials
- Figure 17. Product Picture of 3D Acoustic Metamaterials
- Figure 18. Global Engineering Acoustic Metamaterial Sales Market Share by Shape in 2026
- Figure 19. Global Engineering Acoustic Metamaterial Revenue Market Share by Shape (2021-2026)
- Figure 20. Product Picture of Traditional Machining Type
- Figure 21. Product Picture of Additive Manufacturing Type
- Figure 22. Global Engineering Acoustic Metamaterial Sales Market Share by Manufacturing Process in 2026
- Figure 23. Global Engineering Acoustic Metamaterial Revenue Market Share by Manufacturing Process (2021-2026)
- Figure 24. Engineering Acoustic Metamaterial Consumed in Architecture and Civil

## Engineering

Figure 25. Global Engineering Acoustic Metamaterial Market: Architecture and Civil Engineering (2021-2026) & (Kilotons)

Figure 26. Engineering Acoustic Metamaterial Consumed in Rail Transportation

Figure 27. Global Engineering Acoustic Metamaterial Market: Rail Transportation (2021-2026) & (Kilotons)

Figure 28. Engineering Acoustic Metamaterial Consumed in Automotive and Mobile Equipment

Figure 29. Global Engineering Acoustic Metamaterial Market: Automotive and Mobile Equipment (2021-2026) & (Kilotons)

Figure 30. Engineering Acoustic Metamaterial Consumed in Aerospace

Figure 31. Global Engineering Acoustic Metamaterial Market: Aerospace (2021-2026) & (Kilotons)

Figure 32. Engineering Acoustic Metamaterial Consumed in Industrial Equipment

Figure 33. Global Engineering Acoustic Metamaterial Market: Industrial Equipment (2021-2026) & (Kilotons)

Figure 34. Engineering Acoustic Metamaterial Consumed in Others

Figure 35. Global Engineering Acoustic Metamaterial Market: Others (2021-2026) & (Kilotons)

Figure 36. Global Engineering Acoustic Metamaterial Sale Market Share by Application (2025)

Figure 37. Global Engineering Acoustic Metamaterial Revenue Market Share by Application in 2026

Figure 38. Engineering Acoustic Metamaterial Sales by Company in 2026 (Kilotons)

Figure 39. Global Engineering Acoustic Metamaterial Sales Market Share by Company in 2026

Figure 40. Engineering Acoustic Metamaterial Revenue by Company in 2026 (\$ millions)

Figure 41. Global Engineering Acoustic Metamaterial Revenue Market Share by Company in 2026

Figure 42. Global Engineering Acoustic Metamaterial Sales Market Share by Geographic Region (2021-2026)

Figure 43. Global Engineering Acoustic Metamaterial Revenue Market Share by Geographic Region in 2026

Figure 44. Americas Engineering Acoustic Metamaterial Sales 2021-2026 (Kilotons)

Figure 45. Americas Engineering Acoustic Metamaterial Revenue 2021-2026 (\$ millions)

Figure 46. APAC Engineering Acoustic Metamaterial Sales 2021-2026 (Kilotons)

Figure 47. APAC Engineering Acoustic Metamaterial Revenue 2021-2026 (\$ millions)

Figure 48. Europe Engineering Acoustic Metamaterial Sales 2021-2026 (Kilotons)

Figure 49. Europe Engineering Acoustic Metamaterial Revenue 2021-2026 (\$ millions)

Figure 50. Middle East & Africa Engineering Acoustic Metamaterial Sales 2021-2026 (Kilotons)

Figure 51. Middle East & Africa Engineering Acoustic Metamaterial Revenue 2021-2026 (\$ millions)

Figure 52. Americas Engineering Acoustic Metamaterial Sales Market Share by Country in 2026

Figure 53. Americas Engineering Acoustic Metamaterial Revenue Market Share by Country (2021-2026)

Figure 54. Americas Engineering Acoustic Metamaterial Sales Market Share by Type (2021-2026)

Figure 55. Americas Engineering Acoustic Metamaterial Sales Market Share by Application (2021-2026)

Figure 56. United States Engineering Acoustic Metamaterial Revenue Growth 2021-2026 (\$ millions)

Figure 57. Canada Engineering Acoustic Metamaterial Revenue Growth 2021-2026 (\$ millions)

Figure 58. Mexico Engineering Acoustic Metamaterial Revenue Growth 2021-2026 (\$ millions)

Figure 59. Brazil Engineering Acoustic Metamaterial Revenue Growth 2021-2026 (\$ millions)

Figure 60. APAC Engineering Acoustic Metamaterial Sales Market Share by Region in 2026

Figure 61. APAC Engineering Acoustic Metamaterial Revenue Market Share by Region (2021-2026)

Figure 62. APAC Engineering Acoustic Metamaterial Sales Market Share by Type (2021-2026)

Figure 63. APAC Engineering Acoustic Metamaterial Sales Market Share by Application (2021-2026)

Figure 64. China Engineering Acoustic Metamaterial Revenue Growth 2021-2026 (\$ millions)

Figure 65. Japan Engineering Acoustic Metamaterial Revenue Growth 2021-2026 (\$ millions)

Figure 66. South Korea Engineering Acoustic Metamaterial Revenue Growth 2021-2026 (\$ millions)

Figure 67. Southeast Asia Engineering Acoustic Metamaterial Revenue Growth 2021-2026 (\$ millions)

Figure 68. India Engineering Acoustic Metamaterial Revenue Growth 2021-2026 (\$

millions)

Figure 69. Australia Engineering Acoustic Metamaterial Revenue Growth 2021-2026 (\$ millions)

Figure 70. China Taiwan Engineering Acoustic Metamaterial Revenue Growth 2021-2026 (\$ millions)

Figure 71. Europe Engineering Acoustic Metamaterial Sales Market Share by Country in 2026

Figure 72. Europe Engineering Acoustic Metamaterial Revenue Market Share by Country (2021-2026)

Figure 73. Europe Engineering Acoustic Metamaterial Sales Market Share by Type (2021-2026)

Figure 74. Europe Engineering Acoustic Metamaterial Sales Market Share by Application (2021-2026)

Figure 75. Germany Engineering Acoustic Metamaterial Revenue Growth 2021-2026 (\$ millions)

Figure 76. France Engineering Acoustic Metamaterial Revenue Growth 2021-2026 (\$ millions)

Figure 77. UK Engineering Acoustic Metamaterial Revenue Growth 2021-2026 (\$ millions)

Figure 78. Italy Engineering Acoustic Metamaterial Revenue Growth 2021-2026 (\$ millions)

Figure 79. Russia Engineering Acoustic Metamaterial Revenue Growth 2021-2026 (\$ millions)

Figure 80. Middle East & Africa Engineering Acoustic Metamaterial Sales Market Share by Country (2021-2026)

Figure 81. Middle East & Africa Engineering Acoustic Metamaterial Sales Market Share by Type (2021-2026)

Figure 82. Middle East & Africa Engineering Acoustic Metamaterial Sales Market Share by Application (2021-2026)

Figure 83. Egypt Engineering Acoustic Metamaterial Revenue Growth 2021-2026 (\$ millions)

Figure 84. South Africa Engineering Acoustic Metamaterial Revenue Growth 2021-2026 (\$ millions)

Figure 85. Israel Engineering Acoustic Metamaterial Revenue Growth 2021-2026 (\$ millions)

Figure 86. Turkey Engineering Acoustic Metamaterial Revenue Growth 2021-2026 (\$ millions)

Figure 87. GCC Countries Engineering Acoustic Metamaterial Revenue Growth 2021-2026 (\$ millions)

Figure 88. Manufacturing Cost Structure Analysis of Engineering Acoustic Metamaterial in 2026

Figure 89. Manufacturing Process Analysis of Engineering Acoustic Metamaterial

Figure 90. Industry Chain Structure of Engineering Acoustic Metamaterial

Figure 91. Channels of Distribution

Figure 92. Global Engineering Acoustic Metamaterial Sales Market Forecast by Region (2027-2032)

Figure 93. Global Engineering Acoustic Metamaterial Revenue Market Share Forecast by Region (2027-2032)

Figure 94. Global Engineering Acoustic Metamaterial Sales Market Share Forecast by Type (2027-2032)

Figure 95. Global Engineering Acoustic Metamaterial Revenue Market Share Forecast by Type (2027-2032)

Figure 96. Global Engineering Acoustic Metamaterial Sales Market Share Forecast by Application (2027-2032)

Figure 97. Global Engineering Acoustic Metamaterial Revenue Market Share Forecast by Application (2027-2032)

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