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Global Engineering Acoustic Metamaterial Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Engineering Acoustic Metamaterial market size was valued at US$ 124 million in 2025 and is forecast to a readjusted size of US$ 188 million by 2032 with a CAGR of 4.7% during review period.

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.

This report is a detailed and comprehensive analysis for global Engineering Acoustic Metamaterial market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Engineering Acoustic Metamaterial market size and forecasts, in consumption value ($ Million), sales quantity (Kilotons), and average selling prices (US$/Ton), 2021-2032

Global Engineering Acoustic Metamaterial market size and forecasts by region and country, in consumption value ($ Million), sales quantity (Kilotons), and average selling prices (US$/Ton), 2021-2032

Global Engineering Acoustic Metamaterial market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (Kilotons), and average selling prices (US$/Ton), 2021-2032

Global Engineering Acoustic Metamaterial market shares of main players, shipments in revenue ($ Million), sales quantity (Kilotons), and ASP (US$/Ton), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Engineering Acoustic Metamaterial

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Engineering Acoustic Metamaterial market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Merford, Metasonixx, Lios Group, MetAcoustic, Acoustic Metamaterials Group (AMG), Acentech, Nanjing Huaqin Photoacoustic Technology, Shenzhen Shenchuang Advanced Materials Research Institute, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Engineering Acoustic Metamaterial market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Locally Resonant Acoustic Metamaterials?LRAM?

Hybrid Acoustic Metamaterials

Market segment by Shape

1D Acoustic Metamaterials

2D Acoustic Metamaterials

3D Acoustic Metamaterials

Market segment by Manufacturing Process

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Traditional Machining Type

Additive Manufacturing Type

Market segment by Application

Architecture and Civil Engineering

Rail Transportation

Automotive and Mobile Equipment

Aerospace

Industrial Equipment

Others

Major players covered

Merford

Metasonixx

Lios Group

MetAcoustic

Acoustic Metamaterials Group (AMG)

Acentech

Nanjing Huaqin Photoacoustic Technology

Shenzhen Shenchuang Advanced Materials Research Institute

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Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Engineering Acoustic Metamaterial product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Engineering Acoustic Metamaterial, with price, sales quantity, revenue, and global market share of Engineering Acoustic Metamaterial from 2021 to 2026.

Chapter 3, the Engineering Acoustic Metamaterial competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Engineering Acoustic Metamaterial breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026.and Engineering Acoustic Metamaterial market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Engineering Acoustic Metamaterial.

Chapter 14 and 15, to describe Engineering Acoustic Metamaterial sales channel, distributors, customers, research findings and conclusion.

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