

Global Engineering Acoustic Metamaterial Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Engineering Acoustic Metamaterial market size is expected to reach \$ 188 million by 2032, rising at a market growth of 4.7% CAGR during the forecast period (2026-2032).

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.

This report studies the global Engineering Acoustic Metamaterial production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Engineering Acoustic Metamaterial and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Engineering Acoustic Metamaterial that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Engineering Acoustic Metamaterial total production and demand, 2021-2032, (Kilotons)

Global Engineering Acoustic Metamaterial total production value, 2021-2032, (USD Million)

Global Engineering Acoustic Metamaterial production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global Engineering Acoustic Metamaterial consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: Engineering Acoustic Metamaterial domestic production, consumption, key domestic manufacturers and share

Global Engineering Acoustic Metamaterial production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global Engineering Acoustic Metamaterial production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Engineering Acoustic Metamaterial production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Engineering Acoustic Metamaterial market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Merford, Metasonix, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Engineering Acoustic Metamaterial market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) and average price (US\$/Ton)

by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Engineering Acoustic Metamaterial Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Engineering Acoustic Metamaterial Market, Segmentation by Type:

Locally Resonant Acoustic Metamaterials?LRAM?

Hybrid Acoustic Metamaterials

Global Engineering Acoustic Metamaterial Market, Segmentation by Shape:

1D Acoustic Metamaterials

2D Acoustic Metamaterials

3D Acoustic Metamaterials

Global Engineering Acoustic Metamaterial Market, Segmentation by Manufacturing

Process:

Traditional Machining Type

Additive Manufacturing Type

Global Engineering Acoustic Metamaterial Market, Segmentation by Application:

Architecture and Civil Engineering

Rail Transportation

Automotive and Mobile Equipment

Aerospace

Industrial Equipment

Others

Companies Profiled:

Merford

Metasonixx

Lios Group

MetAcoustic

Acoustic Metamaterials Group (AMG)

Acentech

Nanjing Huaqin Photoacoustic Technology

Shenzhen Shenchuang Advanced Materials Research Institute

Key Questions Answered:

1. How big is the global Engineering Acoustic Metamaterial market?
2. What is the demand of the global Engineering Acoustic Metamaterial market?
3. What is the year over year growth of the global Engineering Acoustic Metamaterial market?
4. What is the production and production value of the global Engineering Acoustic Metamaterial market?
5. Who are the key producers in the global Engineering Acoustic Metamaterial market?
6. What are the growth factors driving the market demand?

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