

Global Acoustic Metamaterial Market Research Report 2024(Status and Outlook)

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Abstracts

Report Overview

An acoustic metamaterial is a material designed to control, direct, and manipulate sound waves as these might occur in gases, liquids, and solids. The hereditary line into acoustic metamaterials follows from theory and research in negative index material. Furthermore, with acoustic metamaterials, controlling sonic waves can now be extended to the negative refraction domain. Control of the various forms of sound waves is mostly accomplished through the bulk modulus ρ , mass density ρ , and chirality. The density and bulk modulus are analogies of the electromagnetic parameters, permittivity and permeability in negative index materials. Related to this is the mechanics of wave propagation in a lattice structure. Also materials have mass, and intrinsic degrees of stiffness. Together these form a resonant system, and the mechanical (sonic) resonance may be excited by appropriate sonic frequencies (for example pulses at audio frequencies).

The acoustic metamaterial market is characterized by several significant trends that are shaping its development and application. Increased research and innovation are at the forefront, driven by substantial investments from both public and private sectors and robust collaborations between academic institutions and industry players. This has led to the rapid development and commercialization of advanced acoustic metamaterials. Customization and tailored solutions are increasingly in demand, with acoustic metamaterials being specifically designed for diverse applications such as automotive noise reduction, architectural acoustics, and consumer electronics. Smart and adaptive materials are revolutionizing the market, as these materials can integrate with IoT devices for real-time monitoring and dynamic noise control, and actively change their properties in response to external stimuli. Sustainability is a key focus, with a growing

emphasis on using eco-friendly, recyclable materials and considering the entire lifecycle of products to reduce environmental impact. Enhanced acoustic performance is also a critical trend, with ongoing advancements in broadband capabilities and improvements in sound absorption, isolation, and damping properties, enabling these materials to provide superior sound quality across a wide range of applications. These trends collectively define the dynamic and rapidly evolving landscape of the acoustic metamaterial market.

The global Acoustic Metamaterial market size is projected to reach US\$ 628.87 Million by 2030 from US\$ 59.49 million in 2023 at a CAGR of 40.72% during 2024-2030. The growth of the acoustic metamaterial market can be attributed to several key factors. Firstly, the increasing demand for noise control solutions is a significant driver, as urbanization and industrial activities lead to higher levels of noise pollution, necessitating advanced noise mitigation technologies. Technological advancements have also played a crucial role, with innovations in material science and manufacturing techniques enabling the development of more effective and versatile acoustic metamaterials. Environmental and regulatory pressures further propel the market, as stricter noise regulations and sustainability goals push industries to adopt eco-friendly and compliant noise control solutions. Economic growth and industrialization, especially in emerging markets, lead to substantial infrastructure development and increased manufacturing activities, driving the need for effective noise management in both urban and industrial settings. Additionally, rising consumer awareness and preferences for health and well-being are boosting the demand for products that enhance the quality of life, such as quiet home appliances and soundproofing materials. These factors collectively contribute to the robust growth of the acoustic metamaterial market.

At the same time, factors such as high production costs, limited awareness and understanding, integration challenges, intellectual property issues, performance validation have brought considerable challenges to the development of the Acoustic Metamaterial market.

Segment by Type, the Acoustic Metamaterial market can be split into Constrained Acoustic Metamaterial (CAM), Near-field Acoustic Metamaterial (NAM), Perforated Acoustic Metamaterial (PAM) and Surface Acoustic Metamaterial (SAM). In 2023, the CAM segment already holds the highest market share at 49.81%. CAMs are particularly effective in damping and absorbing sound, making them highly suitable for applications in automotive, aerospace, and industrial settings where noise reduction is critical. Their effectiveness in reducing engine and road noise in vehicles, minimizing cabin noise in aircraft, and soundproofing buildings has driven significant adoption. Advances in

material science have led to the development of more efficient CAMs, and their customization options allow for tailored solutions that meet specific acoustic requirements. Stricter noise regulations and a growing emphasis on sustainability further bolster CAMs' market leadership, as they align with global trends towards sustainable development. Additionally, CAMs' established market presence and increased awareness of their benefits among industry professionals and consumers contribute to their dominant position.

According to the application field, the Acoustic Metamaterial market can be split into Architectural and Urban Noise Mitigations, Automotive, Aviation, Consumer Electronics, Industrial Applications and others. The Architectural and Urban Noise Mitigations segment brings 32.80% of the market revenue and will expand at a CAGR of 41.59% during the forecast period. There are several reasons why Architectural and Urban Noise Mitigations account for a larger share of the Acoustic Metamaterial market: Rapid urbanization has led to increased noise pollution in cities, necessitating effective noise control solutions to enhance the quality of life for urban residents. Acoustic metamaterials are being extensively used in buildings and urban environments to soundproof spaces, reduce noise pollution, and improve acoustics, which is crucial in densely populated areas. Stricter noise regulations and standards in construction further drive the demand for advanced noise mitigation solutions. Additionally, technological advancements have made these materials more efficient and cost-effective, making them an attractive option for new constructions and renovations. The growing awareness of the negative impacts of noise pollution on health and well-being has also contributed to the increased adoption of acoustic metamaterials in architectural applications.

On basis of geography, the Acoustic Metamaterial market is segmented into North America, Europe, Asia-Pacific, South America, Middle East and Africa, etc. Currently, the North America market contributes more than 30% of the revenue due to the region's advanced technological infrastructure, significant investments in research and development, and stringent noise regulation standards that drive the adoption of acoustic metamaterials in various applications such as automotive, aerospace, and urban noise mitigation. However, the Asia-Pacific market is expected to expand at the highest growth rate during the forecast period. This rapid growth is attributed to the region's booming construction and automotive industries, increasing urbanization, and rising awareness of noise pollution and its health impacts. Additionally, substantial government initiatives and investments in infrastructure development and environmental sustainability in countries like China, India, and Japan are further propelling the demand for acoustic metamaterials in the Asia-Pacific region.

According to our calculations, in 2023, the Acoustic Metamaterial market's market concentration indicators CR5 and HHI have reached 45.02% and 4.52%, respectively. This balance allows for competitive dynamics where smaller companies can compete with larger firms, fostering innovation and keeping prices in check. Currently, the key players in the market include Merford UK, Applied Metamaterials, SoundBounce by Lios, MetAcoustic, Acoustic Metamaterials Group Limited, Huaqin Optacous, Phononic Vibes, Pixie Dust Technologies, Inc, Metasonixx, Acentech.

This report provides a deep insight into the global Acoustic Metamaterial market covering all its essential aspects. This ranges from a macro overview of the market to micro details of the market size, competitive landscape, development trend, niche market, key market drivers and challenges, SWOT analysis, value chain analysis, etc.

The analysis helps the reader to shape the competition within the industries and strategies for the competitive environment to enhance the potential profit. Furthermore, it provides a simple framework for evaluating and accessing the position of the business organization. The report structure also focuses on the competitive landscape of the Global Acoustic Metamaterial Market, this report introduces in detail the market share, market performance, product situation, operation situation, etc. of the main players, which helps the readers in the industry to identify the main competitors and deeply understand the competition pattern of the market.

In a word, this report is a must-read for industry players, investors, researchers, consultants, business strategists, and all those who have any kind of stake or are planning to foray into the Acoustic Metamaterial market in any manner.

Global Acoustic Metamaterial Market: Market Segmentation Analysis

The research report includes specific segments by region (country), manufacturers, Type, and Application. Market segmentation creates subsets of a market based on product type, end-user or application, Geographic, and other factors. By understanding the market segments, the decision-maker can leverage this targeting in the product, sales, and marketing strategies. Market segments can power your product development cycles by informing how you create product offerings for different segments.

Key Company

Merford UK

Applied Metamaterials

SoundBounce by Lios

MetAcoustic

Acoustic Metamaterials Group Limited

Huaqin Optacous

Phononic Vibes

Pixie Dust Technologies, Inc

Metasonixx

Acentech

Market Segmentation (by Type)

CAM

NAM

PAM

SAM

Market Segmentation (by Application)

Architectural and Urban Noise Mitigations

Automotive

Aviation

Consumer Electronics

Industrial Applications

Others

Geographic Segmentation

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study

Neutral perspective on the market performance

Recent industry trends and developments

Competitive landscape & strategies of key players

Potential & niche segments and regions exhibiting promising growth covered

Historical, current, and projected market size, in terms of value

In-depth analysis of the Acoustic Metamaterial Market

Overview of the regional outlook of the Acoustic Metamaterial Market:

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value (USD Billion) data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the

years to come

6-month post-sales analyst support

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Acoustic Metamaterial Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 10 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 11 provides a quantitative analysis of the market size and development potential of each market segment (product type and application) in the next five years.

Chapter 12 is the main points and conclusions of the report.

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