

Global Aerospace Metamaterial Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GBB12E2A15C1EN.html>

Date: June 2026

Pages: 122

Price: US\$ 4,480.00 (Single User License)

ID: GBB12E2A15C1EN

Abstracts

The global Aerospace Metamaterial market size is expected to reach \$ 914 million by 2032, rising at a market growth of 20.5% CAGR during the forecast period (2026-2032).

Aerospace Metamaterials refer to a class of function-structure integrated composites applied to spacecraft, launch vehicles, missiles, and near-space vehicles, achieving extraordinary physical characteristics—including electromagnetic stealth, lightweight load-bearing, vibration suppression, thermal management, and conformal communication—through artificially engineered subwavelength micro/nano structural units. The core principle replaces 'material composition determines properties' with 'structural geometry defines performance,' utilizing periodic or aperiodic unit cell topology and spatial arrangement to deliver disruptive functionalities at the macroscopic scale unattainable in natural materials, such as negative refractive index, perfect absorption, zero Poisson's ratio, phononic bandgap, and zero thermal expansion. Upstream dependencies include electromagnetic simulation and design software, micro/nano fabrication equipment, and specialty matrix materials. Midstream manufacturing covers electromagnetic stealth metastructural skins, metamaterial absorbing coatings, metasurface conformal antennas, lightweight lattice load-bearing structures, phononic crystal vibration-isolation mounts, and thermally tunable structural components. Downstream integration feeds into stealth fighter skins, satellite stealth radomes, rocket interstage lightweight brackets, missile seeker absorbing domes, spacecraft micro-vibration isolation platforms, and thermal protection systems for hypersonic vehicles.

In volume terms, satellite lightweight lattice brackets total 20,000–30,000 units annually; metasurface spaceborne antennas equip approximately 300–500 satellite and UAV platforms per year; missile seeker metamaterial radomes ship at 5,000–8,000 units

annually; and stealth skins and coatings outfit approximately 50–80 spacecraft and reentry vehicles per year. Pricing exhibits steep stratification: metasurface spaceborne antennas vary by frequency band and platform, priced at US\$10,000–US\$80,000, with select high-performance models exceeding US\$100,000; missile seeker metamaterial radomes range from US\$5,000 to US\$20,000; satellite lightweight lattice brackets cost US\$3,000–US\$10,000 per unit; reentry vehicle thermal protection metamaterial skins, constrained by ceramic-based materials and extreme manufacturing requirements, exceed US\$200,000 per square meter. Gross margins diverge by product category: Kuang-Chi Technologies achieved a 54.95% gross margin on metamaterial products in the first half of 2025, with full-year margins estimated at 51%–55%; Huaqin Tech reported a 47.69% gross margin on specialty functional materials for the first three quarters of 2025; BLT’s 3D printing customized products and technical services achieved a 41.5% margin, with aerospace lightweight lattice structures operating at approximately 40%–45%; metasurface antennas, given high customization requirements, realize margins of 45%–60%. Downstream demand is anchored by low Earth orbit (LEO) satellite constellations as the largest incremental market, contributing approximately 40% of revenue with annual growth exceeding 30%; strategic missiles and reentry vehicles constitute a stable base market, contributing approximately 35% of revenue with 15%–20% annual growth; deep-space probes and commercial launch vehicles serve as high-barrier, long-horizon drivers. Upstream dependencies include electromagnetic simulation software, micro/nano fabrication equipment, and metal/ceramic additive manufacturing powders. Midstream manufacturing is jointly populated by specialized metamaterial producers and additive manufacturing service bureaus—Kuang-Chi Technologies stands as the only enterprise globally achieving large-scale industrialization of metamaterials, reporting first-three-quarters 2025 revenue of RMB 1.596 billion with a 54.95% gross margin on metamaterial products and cumulative orders approaching RMB 7 billion; Huaqin Tech projects full-year 2025 revenue of RMB 1.251 billion, up 9.83% year-on-year; BLT reported first-three-quarters 2025 revenue of RMB 1.161 billion, up 46.47% year-on-year, with a gross margin of 43.48%; Kymeta has raised over US\$500 million cumulatively, with annual revenue estimated in the US\$10–100 million range. Downstream integration feeds into supply chains for LEO communication satellite constellations, intercontinental ballistic missiles, deep-space probes, and commercial launch vehicles. The competitive landscape assumes a pyramid configuration: Kuang-Chi Technologies holds absolute dominance in domestic aerospace metamaterial structures, with technical barriers and production scale far exceeding peers; Kymeta leads the global technical echelon in metasurface spaceborne antennas; Huaqin Tech and BLT deepen positions in niche segments including stealth materials and lightweight structures; startups such as Space Forge explore emerging directions in space-

manufactured metamaterial feedstocks. Uncertainties center on three fronts: large-scale LEO satellite constellation deployment exerts cost pressure on metasurface antennas, requiring further breakthroughs in volume production cost reduction; the incomplete long-duration oxidation life database for reentry vehicle metamaterial thermal protection structures impedes operational deployment timelines; geopolitical dynamics continue tightening export controls on dual-use metamaterial technologies. In conclusion, the aerospace metamaterials sector is navigating the transition from single-function stealth to multifunctional structural integration at volume production scale, driven principally by large-scale LEO satellite constellation rollouts, next-generation strategic missile deployments, and advancing deep-space exploration missions, and characterized structurally by a multi-polar configuration wherein Kuang-Chi maintains full-chain dominance in China, Kymeta secures a leading position in spaceborne antennas globally, and multiple niche players flourish across specialized segments.

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

This report is a detailed and comprehensive analysis of the world market for Aerospace 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 Aerospace Metamaterial that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Aerospace Metamaterial total production and demand, 2021-2032, (Units)

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

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

Global Aerospace Metamaterial consumption by region & country, CAGR, 2021-2032 & (Units)

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

Global Aerospace Metamaterial production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Aerospace Metamaterial production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Aerospace Metamaterial production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Aerospace 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 Kuang-Chi Technologies, Kymeta, Huameta Tech, BMM Information, Metaktik, Meimai Tech, BLT, Z-K XL Lightweight Tech, Huaqin Tech, Longbo New Materials, 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 Aerospace Metamaterial market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) 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 Aerospace Metamaterial Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Aerospace Metamaterial Market, Segmentation by Type:

Electromagnetic Stealth Metamaterials

Metasurface Spaceborne Antennas

Lightweight Load-Bearing Lattice Metamaterials

Vibro-Acoustic Metamaterials

Thermo-Mechanical Metamaterials

Global Aerospace Metamaterial Market, Segmentation by Form:

Metamaterial Skins & Coatings

Metamaterial Spaceborne Antennas & Radomes

Lattice & Architected Structural Components

Vibration-Isolation Mounts & Dampers

Thermal Protection & Control Metastructures

Global Aerospace Metamaterial Market, Segmentation by Application:

Low Earth Orbit Satellite Constellations

Strategic Missiles & Reentry Vehicles

Deep-Space Probes & Space Telescopes

Commercial Launch Vehicles

Space Domain Awareness Satellites

Companies Profiled:

Kuang-Chi Technologies

Kymeta

Huameta Tech

BMM Information

Metaktik

Meimai Tech

BLT

Z-K XL Lightweight Tech

Huaqin Tech

Longbo New Materials

Xinjingang (Kangtaiwei)

Aerospace Science & Industry Wuhan Magnetic Elec

Longhua Tech

Space Forge

Ruichuang New Materials

Key Questions Answered:

1. How big is the global Aerospace Metamaterial market?
2. What is the demand of the global Aerospace Metamaterial market?
3. What is the year over year growth of the global Aerospace Metamaterial market?
4. What is the production and production value of the global Aerospace Metamaterial market?

5. Who are the key producers in the global Aerospace Metamaterial market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Aerospace Metamaterial Introduction
- 1.2 World Aerospace Metamaterial Supply & Forecast
 - 1.2.1 World Aerospace Metamaterial Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Aerospace Metamaterial Production (2021-2032)
 - 1.2.3 World Aerospace Metamaterial Pricing Trends (2021-2032)
- 1.3 World Aerospace Metamaterial Production by Region (Based on Production Site)
 - 1.3.1 World Aerospace Metamaterial Production Value by Region (2021-2032)
 - 1.3.2 World Aerospace Metamaterial Production by Region (2021-2032)
 - 1.3.3 World Aerospace Metamaterial Average Price by Region (2021-2032)
 - 1.3.4 North America Aerospace Metamaterial Production (2021-2032)
 - 1.3.5 Europe Aerospace Metamaterial Production (2021-2032)
 - 1.3.6 China Aerospace Metamaterial Production (2021-2032)
 - 1.3.7 Japan Aerospace Metamaterial Production (2021-2032)
 - 1.3.8 India Aerospace Metamaterial Production (2021-2032)
 - 1.3.9 Southeast Asia Aerospace Metamaterial Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Aerospace Metamaterial Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Aerospace Metamaterial Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Aerospace Metamaterial Demand (2021-2032)
- 2.2 World Aerospace Metamaterial Consumption by Region
 - 2.2.1 World Aerospace Metamaterial Consumption by Region (2021-2026)
 - 2.2.2 World Aerospace Metamaterial Consumption Forecast by Region (2027-2032)
- 2.3 United States Aerospace Metamaterial Consumption (2021-2032)
- 2.4 China Aerospace Metamaterial Consumption (2021-2032)
- 2.5 Europe Aerospace Metamaterial Consumption (2021-2032)
- 2.6 Japan Aerospace Metamaterial Consumption (2021-2032)
- 2.7 South Korea Aerospace Metamaterial Consumption (2021-2032)
- 2.8 ASEAN Aerospace Metamaterial Consumption (2021-2032)
- 2.9 India Aerospace Metamaterial Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Aerospace Metamaterial Production Value by Manufacturer (2021-2026)
- 3.2 World Aerospace Metamaterial Production by Manufacturer (2021-2026)
- 3.3 World Aerospace Metamaterial Average Price by Manufacturer (2021-2026)
- 3.4 Aerospace Metamaterial Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Aerospace Metamaterial Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Aerospace Metamaterial in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Aerospace Metamaterial in 2025
- 3.6 Aerospace Metamaterial Market: Overall Company Footprint Analysis
 - 3.6.1 Aerospace Metamaterial Market: Region Footprint
 - 3.6.2 Aerospace Metamaterial Market: Company Product Type Footprint
 - 3.6.3 Aerospace Metamaterial Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Aerospace Metamaterial Production Value Comparison
 - 4.1.1 United States VS China: Aerospace Metamaterial Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Aerospace Metamaterial Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Aerospace Metamaterial Production Comparison
 - 4.2.1 United States VS China: Aerospace Metamaterial Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Aerospace Metamaterial Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Aerospace Metamaterial Consumption Comparison
 - 4.3.1 United States VS China: Aerospace Metamaterial Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Aerospace Metamaterial Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Aerospace Metamaterial Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Aerospace Metamaterial Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Aerospace Metamaterial Production Value (2021-2026)

4.4.3 United States Based Manufacturers Aerospace Metamaterial Production (2021-2026)

4.5 China Based Aerospace Metamaterial Manufacturers and Market Share

4.5.1 China Based Aerospace Metamaterial Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Aerospace Metamaterial Production Value (2021-2026)

4.5.3 China Based Manufacturers Aerospace Metamaterial Production (2021-2026)

4.6 Rest of World Based Aerospace Metamaterial Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Aerospace Metamaterial Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Aerospace Metamaterial Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Aerospace Metamaterial Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Aerospace Metamaterial Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Electromagnetic Stealth Metamaterials

5.2.2 Metasurface Spaceborne Antennas

5.2.3 Lightweight Load-Bearing Lattice Metamaterials

5.2.4 Vibro-Acoustic Metamaterials

5.2.5 Thermo-Mechanical Metamaterials

5.3 Market Segment by Type

5.3.1 World Aerospace Metamaterial Production by Type (2021-2032)

5.3.2 World Aerospace Metamaterial Production Value by Type (2021-2032)

5.3.3 World Aerospace Metamaterial Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY FORM

6.1 World Aerospace Metamaterial Market Size Overview by Form: 2021 VS 2025 VS

2032

6.2 Segment Introduction by Form

- 6.2.1 Metamaterial Skins & Coatings
- 6.2.2 Metamaterial Spaceborne Antennas & Radomes
- 6.2.3 Lattice & Architected Structural Components
- 6.2.4 Vibration-Isolation Mounts & Dampers
- 6.2.5 Thermal Protection & Control Metastructures

6.3 Market Segment by Form

- 6.3.1 World Aerospace Metamaterial Production by Form (2021-2032)
- 6.3.2 World Aerospace Metamaterial Production Value by Form (2021-2032)
- 6.3.3 World Aerospace Metamaterial Average Price by Form (2021-2032)

7 MARKET ANALYSIS BY APPLICATION

7.1 World Aerospace Metamaterial Market Size Overview by Application: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Application

- 7.2.1 Low Earth Orbit Satellite Constellations
- 7.2.2 Strategic Missiles & Reentry Vehicles
- 7.2.3 Deep-Space Probes & Space Telescopes
- 7.2.4 Commercial Launch Vehicles
- 7.2.5 Space Domain Awareness Satellites

7.3 Market Segment by Application

- 7.3.1 World Aerospace Metamaterial Production by Application (2021-2032)
- 7.3.2 World Aerospace Metamaterial Production Value by Application (2021-2032)
- 7.3.3 World Aerospace Metamaterial Average Price by Application (2021-2032)

8 COMPANY PROFILES

8.1 Kuang-Chi Technologies

- 8.1.1 Kuang-Chi Technologies Details
- 8.1.2 Kuang-Chi Technologies Major Business
- 8.1.3 Kuang-Chi Technologies Aerospace Metamaterial Product and Services
- 8.1.4 Kuang-Chi Technologies Aerospace Metamaterial Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 8.1.5 Kuang-Chi Technologies Recent Developments/Updates
- 8.1.6 Kuang-Chi Technologies Competitive Strengths & Weaknesses

8.2 Kymeta

- 8.2.1 Kymeta Details

- 8.2.2 Kymeta Major Business
- 8.2.3 Kymeta Aerospace Metamaterial Product and Services
- 8.2.4 Kymeta Aerospace Metamaterial Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 8.2.5 Kymeta Recent Developments/Updates
- 8.2.6 Kymeta Competitive Strengths & Weaknesses
- 8.3 Huameta Tech
 - 8.3.1 Huameta Tech Details
 - 8.3.2 Huameta Tech Major Business
 - 8.3.3 Huameta Tech Aerospace Metamaterial Product and Services
 - 8.3.4 Huameta Tech Aerospace Metamaterial Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.3.5 Huameta Tech Recent Developments/Updates
 - 8.3.6 Huameta Tech Competitive Strengths & Weaknesses
- 8.4 BMM Information
 - 8.4.1 BMM Information Details
 - 8.4.2 BMM Information Major Business
 - 8.4.3 BMM Information Aerospace Metamaterial Product and Services
 - 8.4.4 BMM Information Aerospace Metamaterial Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.4.5 BMM Information Recent Developments/Updates
 - 8.4.6 BMM Information Competitive Strengths & Weaknesses
- 8.5 Metaktik
 - 8.5.1 Metaktik Details
 - 8.5.2 Metaktik Major Business
 - 8.5.3 Metaktik Aerospace Metamaterial Product and Services
 - 8.5.4 Metaktik Aerospace Metamaterial Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.5.5 Metaktik Recent Developments/Updates
 - 8.5.6 Metaktik Competitive Strengths & Weaknesses
- 8.6 Meimai Tech
 - 8.6.1 Meimai Tech Details
 - 8.6.2 Meimai Tech Major Business
 - 8.6.3 Meimai Tech Aerospace Metamaterial Product and Services
 - 8.6.4 Meimai Tech Aerospace Metamaterial Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.6.5 Meimai Tech Recent Developments/Updates
 - 8.6.6 Meimai Tech Competitive Strengths & Weaknesses
- 8.7 BLT

- 8.7.1 BLT Details
- 8.7.2 BLT Major Business
- 8.7.3 BLT Aerospace Metamaterial Product and Services
- 8.7.4 BLT Aerospace Metamaterial Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 8.7.5 BLT Recent Developments/Updates
- 8.7.6 BLT Competitive Strengths & Weaknesses
- 8.8 Z-K XL Lightweight Tech
 - 8.8.1 Z-K XL Lightweight Tech Details
 - 8.8.2 Z-K XL Lightweight Tech Major Business
 - 8.8.3 Z-K XL Lightweight Tech Aerospace Metamaterial Product and Services
 - 8.8.4 Z-K XL Lightweight Tech Aerospace Metamaterial Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.8.5 Z-K XL Lightweight Tech Recent Developments/Updates
 - 8.8.6 Z-K XL Lightweight Tech Competitive Strengths & Weaknesses
- 8.9 Huaqin Tech
 - 8.9.1 Huaqin Tech Details
 - 8.9.2 Huaqin Tech Major Business
 - 8.9.3 Huaqin Tech Aerospace Metamaterial Product and Services
 - 8.9.4 Huaqin Tech Aerospace Metamaterial Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.9.5 Huaqin Tech Recent Developments/Updates
 - 8.9.6 Huaqin Tech Competitive Strengths & Weaknesses
- 8.10 Longbo New Materials
 - 8.10.1 Longbo New Materials Details
 - 8.10.2 Longbo New Materials Major Business
 - 8.10.3 Longbo New Materials Aerospace Metamaterial Product and Services
 - 8.10.4 Longbo New Materials Aerospace Metamaterial Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.10.5 Longbo New Materials Recent Developments/Updates
 - 8.10.6 Longbo New Materials Competitive Strengths & Weaknesses
- 8.11 Xinjingang (Kangtaiwei)
 - 8.11.1 Xinjingang (Kangtaiwei) Details
 - 8.11.2 Xinjingang (Kangtaiwei) Major Business
 - 8.11.3 Xinjingang (Kangtaiwei) Aerospace Metamaterial Product and Services
 - 8.11.4 Xinjingang (Kangtaiwei) Aerospace Metamaterial Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.11.5 Xinjingang (Kangtaiwei) Recent Developments/Updates
 - 8.11.6 Xinjingang (Kangtaiwei) Competitive Strengths & Weaknesses

8.12 Aerospace Science & Industry Wuhan Magnetic Elec

8.12.1 Aerospace Science & Industry Wuhan Magnetic Elec Details

8.12.2 Aerospace Science & Industry Wuhan Magnetic Elec Major Business

8.12.3 Aerospace Science & Industry Wuhan Magnetic Elec Aerospace Metamaterial Product and Services

8.12.4 Aerospace Science & Industry Wuhan Magnetic Elec Aerospace Metamaterial Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.12.5 Aerospace Science & Industry Wuhan Magnetic Elec Recent Developments/Updates

8.12.6 Aerospace Science & Industry Wuhan Magnetic Elec Competitive Strengths & Weaknesses

8.13 Longhua Tech

8.13.1 Longhua Tech Details

8.13.2 Longhua Tech Major Business

8.13.3 Longhua Tech Aerospace Metamaterial Product and Services

8.13.4 Longhua Tech Aerospace Metamaterial Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.13.5 Longhua Tech Recent Developments/Updates

8.13.6 Longhua Tech Competitive Strengths & Weaknesses

8.14 Space Forge

8.14.1 Space Forge Details

8.14.2 Space Forge Major Business

8.14.3 Space Forge Aerospace Metamaterial Product and Services

8.14.4 Space Forge Aerospace Metamaterial Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.14.5 Space Forge Recent Developments/Updates

8.14.6 Space Forge Competitive Strengths & Weaknesses

8.15 Ruichuang New Materials

8.15.1 Ruichuang New Materials Details

8.15.2 Ruichuang New Materials Major Business

8.15.3 Ruichuang New Materials Aerospace Metamaterial Product and Services

8.15.4 Ruichuang New Materials Aerospace Metamaterial Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.15.5 Ruichuang New Materials Recent Developments/Updates

8.15.6 Ruichuang New Materials Competitive Strengths & Weaknesses

9 INDUSTRY CHAIN ANALYSIS

9.1 Aerospace Metamaterial Industry Chain

9.2 Aerospace Metamaterial Upstream Analysis

9.2.1 Aerospace Metamaterial Core Raw Materials

9.2.2 Main Manufacturers of Aerospace Metamaterial Core Raw Materials

9.3 Midstream Analysis

9.4 Downstream Analysis

9.5 Aerospace Metamaterial Production Mode

9.6 Aerospace Metamaterial Procurement Model

9.7 Aerospace Metamaterial Industry Sales Model and Sales Channels

9.7.1 Aerospace Metamaterial Sales Model

9.7.2 Aerospace Metamaterial Typical Distributors

10 RESEARCH FINDINGS AND CONCLUSION

11 APPENDIX

11.1 Methodology

11.2 Research Process and Data Source

11.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Aerospace Metamaterial Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Aerospace Metamaterial Production Value by Region (2021-2026) & (USD Million)

Table 3. World Aerospace Metamaterial Production Value by Region (2027-2032) & (USD Million)

Table 4. World Aerospace Metamaterial Production Value Market Share by Region (2021-2026)

Table 5. World Aerospace Metamaterial Production Value Market Share by Region (2027-2032)

Table 6. World Aerospace Metamaterial Production by Region (2021-2026) & (Units)

Table 7. World Aerospace Metamaterial Production by Region (2027-2032) & (Units)

Table 8. World Aerospace Metamaterial Production Market Share by Region (2021-2026)

Table 9. World Aerospace Metamaterial Production Market Share by Region (2027-2032)

Table 10. World Aerospace Metamaterial Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Aerospace Metamaterial Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Aerospace Metamaterial Major Market Trends

Table 13. World Aerospace Metamaterial Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Units)

Table 14. World Aerospace Metamaterial Consumption by Region (2021-2026) & (Units)

Table 15. World Aerospace Metamaterial Consumption Forecast by Region (2027-2032) & (Units)

Table 16. World Aerospace Metamaterial Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Aerospace Metamaterial Producers in 2025

Table 18. World Aerospace Metamaterial Production by Manufacturer (2021-2026) & (Units)

Table 19. Production Market Share of Key Aerospace Metamaterial Producers in 2025

Table 20. World Aerospace Metamaterial Average Price by Manufacturer (2021-2026) &

(US\$/Unit)

Table 21. Global Aerospace Metamaterial Company Evaluation Quadrant

Table 22. World Aerospace Metamaterial Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Aerospace Metamaterial Production Site of Key Manufacturer

Table 24. Aerospace Metamaterial Market: Company Product Type Footprint

Table 25. Aerospace Metamaterial Market: Company Product Application Footprint

Table 26. Aerospace Metamaterial Competitive Factors

Table 27. Aerospace Metamaterial New Entrant and Capacity Expansion Plans

Table 28. Aerospace Metamaterial Mergers & Acquisitions Activity

Table 29. United States VS China Aerospace Metamaterial Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Aerospace Metamaterial Production Comparison, (2021 & 2025 & 2032) & (Units)

Table 31. United States VS China Aerospace Metamaterial Consumption Comparison, (2021 & 2025 & 2032) & (Units)

Table 32. United States Based Aerospace Metamaterial Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Aerospace Metamaterial Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Aerospace Metamaterial Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Aerospace Metamaterial Production (2021-2026) & (Units)

Table 36. United States Based Manufacturers Aerospace Metamaterial Production Market Share (2021-2026)

Table 37. China Based Aerospace Metamaterial Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Aerospace Metamaterial Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Aerospace Metamaterial Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Aerospace Metamaterial Production, (2021-2026) & (Units)

Table 41. China Based Manufacturers Aerospace Metamaterial Production Market Share (2021-2026)

Table 42. Rest of World Based Aerospace Metamaterial Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Aerospace Metamaterial Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Aerospace Metamaterial Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Aerospace Metamaterial Production, (2021-2026) & (Units)

Table 46. Rest of World Based Manufacturers Aerospace Metamaterial Production Market Share (2021-2026)

Table 47. World Aerospace Metamaterial Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Aerospace Metamaterial Production by Type (2021-2026) & (Units)

Table 49. World Aerospace Metamaterial Production by Type (2027-2032) & (Units)

Table 50. World Aerospace Metamaterial Production Value by Type (2021-2026) & (USD Million)

Table 51. World Aerospace Metamaterial Production Value by Type (2027-2032) & (USD Million)

Table 52. World Aerospace Metamaterial Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Aerospace Metamaterial Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Aerospace Metamaterial Production Value by Form, (USD Million), 2021 & 2025 & 2032

Table 55. World Aerospace Metamaterial Production by Form (2021-2026) & (Units)

Table 56. World Aerospace Metamaterial Production by Form (2027-2032) & (Units)

Table 57. World Aerospace Metamaterial Production Value by Form (2021-2026) & (USD Million)

Table 58. World Aerospace Metamaterial Production Value by Form (2027-2032) & (USD Million)

Table 59. World Aerospace Metamaterial Average Price by Form (2021-2026) & (US\$/Unit)

Table 60. World Aerospace Metamaterial Average Price by Form (2027-2032) & (US\$/Unit)

Table 61. World Aerospace Metamaterial Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 62. World Aerospace Metamaterial Production by Application (2021-2026) & (Units)

Table 63. World Aerospace Metamaterial Production by Application (2027-2032) & (Units)

Table 64. World Aerospace Metamaterial Production Value by Application (2021-2026)

& (USD Million)

Table 65. World Aerospace Metamaterial Production Value by Application (2027-2032)

& (USD Million)

Table 66. World Aerospace Metamaterial Average Price by Application (2021-2026) & (US\$/Unit)

Table 67. World Aerospace Metamaterial Average Price by Application (2027-2032) & (US\$/Unit)

Table 68. Kuang-Chi Technologies Basic Information, Manufacturing Base and Competitors

Table 69. Kuang-Chi Technologies Major Business

Table 70. Kuang-Chi Technologies Aerospace Metamaterial Product and Services

Table 71. Kuang-Chi Technologies Aerospace Metamaterial Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 72. Kuang-Chi Technologies Recent Developments/Updates

Table 73. Kuang-Chi Technologies Competitive Strengths & Weaknesses

Table 74. Kymeta Basic Information, Manufacturing Base and Competitors

Table 75. Kymeta Major Business

Table 76. Kymeta Aerospace Metamaterial Product and Services

Table 77. Kymeta Aerospace Metamaterial Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 78. Kymeta Recent Developments/Updates

Table 79. Kymeta Competitive Strengths & Weaknesses

Table 80. Huameta Tech Basic Information, Manufacturing Base and Competitors

Table 81. Huameta Tech Major Business

Table 82. Huameta Tech Aerospace Metamaterial Product and Services

Table 83. Huameta Tech Aerospace Metamaterial Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 84. Huameta Tech Recent Developments/Updates

Table 85. Huameta Tech Competitive Strengths & Weaknesses

Table 86. BMM Information Basic Information, Manufacturing Base and Competitors

Table 87. BMM Information Major Business

Table 88. BMM Information Aerospace Metamaterial Product and Services

Table 89. BMM Information Aerospace Metamaterial Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 90. BMM Information Recent Developments/Updates

Table 91. BMM Information Competitive Strengths & Weaknesses

Table 92. Metaktik Basic Information, Manufacturing Base and Competitors

- Table 93. Metaktik Major Business
- Table 94. Metaktik Aerospace Metamaterial Product and Services
- Table 95. Metaktik Aerospace Metamaterial Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 96. Metaktik Recent Developments/Updates
- Table 97. Metaktik Competitive Strengths & Weaknesses
- Table 98. Meimai Tech Basic Information, Manufacturing Base and Competitors
- Table 99. Meimai Tech Major Business
- Table 100. Meimai Tech Aerospace Metamaterial Product and Services
- Table 101. Meimai Tech Aerospace Metamaterial Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 102. Meimai Tech Recent Developments/Updates
- Table 103. Meimai Tech Competitive Strengths & Weaknesses
- Table 104. BLT Basic Information, Manufacturing Base and Competitors
- Table 105. BLT Major Business
- Table 106. BLT Aerospace Metamaterial Product and Services
- Table 107. BLT Aerospace Metamaterial Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 108. BLT Recent Developments/Updates
- Table 109. BLT Competitive Strengths & Weaknesses
- Table 110. Z-K XL Lightweight Tech Basic Information, Manufacturing Base and Competitors
- Table 111. Z-K XL Lightweight Tech Major Business
- Table 112. Z-K XL Lightweight Tech Aerospace Metamaterial Product and Services
- Table 113. Z-K XL Lightweight Tech Aerospace Metamaterial Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 114. Z-K XL Lightweight Tech Recent Developments/Updates
- Table 115. Z-K XL Lightweight Tech Competitive Strengths & Weaknesses
- Table 116. Huaqin Tech Basic Information, Manufacturing Base and Competitors
- Table 117. Huaqin Tech Major Business
- Table 118. Huaqin Tech Aerospace Metamaterial Product and Services
- Table 119. Huaqin Tech Aerospace Metamaterial Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 120. Huaqin Tech Recent Developments/Updates
- Table 121. Huaqin Tech Competitive Strengths & Weaknesses
- Table 122. Longbo New Materials Basic Information, Manufacturing Base and Competitors
- Table 123. Longbo New Materials Major Business

Table 124. Longbo New Materials Aerospace Metamaterial Product and Services

Table 125. Longbo New Materials Aerospace Metamaterial Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 126. Longbo New Materials Recent Developments/Updates

Table 127. Longbo New Materials Competitive Strengths & Weaknesses

Table 128. Xinjingang (Kangtaiwei) Basic Information, Manufacturing Base and Competitors

Table 129. Xinjingang (Kangtaiwei) Major Business

Table 130. Xinjingang (Kangtaiwei) Aerospace Metamaterial Product and Services

Table 131. Xinjingang (Kangtaiwei) Aerospace Metamaterial Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 132. Xinjingang (Kangtaiwei) Recent Developments/Updates

Table 133. Xinjingang (Kangtaiwei) Competitive Strengths & Weaknesses

Table 134. Aerospace Science & Industry Wuhan Magnetic Elec Basic Information, Manufacturing Base and Competitors

Table 135. Aerospace Science & Industry Wuhan Magnetic Elec Major Business

Table 136. Aerospace Science & Industry Wuhan Magnetic Elec Aerospace Metamaterial Product and Services

Table 137. Aerospace Science & Industry Wuhan Magnetic Elec Aerospace Metamaterial Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 138. Aerospace Science & Industry Wuhan Magnetic Elec Recent Developments/Updates

Table 139. Aerospace Science & Industry Wuhan Magnetic Elec Competitive Strengths & Weaknesses

Table 140. Longhua Tech Basic Information, Manufacturing Base and Competitors

Table 141. Longhua Tech Major Business

Table 142. Longhua Tech Aerospace Metamaterial Product and Services

Table 143. Longhua Tech Aerospace Metamaterial Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 144. Longhua Tech Recent Developments/Updates

Table 145. Longhua Tech Competitive Strengths & Weaknesses

Table 146. Space Forge Basic Information, Manufacturing Base and Competitors

Table 147. Space Forge Major Business

Table 148. Space Forge Aerospace Metamaterial Product and Services

Table 149. Space Forge Aerospace Metamaterial Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 150. Space Forge Recent Developments/Updates

Table 151. Space Forge Competitive Strengths & Weaknesses

Table 152. Ruichuang New Materials Basic Information, Manufacturing Base and Competitors

Table 153. Ruichuang New Materials Major Business

Table 154. Ruichuang New Materials Aerospace Metamaterial Product and Services

Table 155. Ruichuang New Materials Aerospace Metamaterial Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 156. Ruichuang New Materials Recent Developments/Updates

Table 157. Ruichuang New Materials Competitive Strengths & Weaknesses

Table 158. Global Key Players of Aerospace Metamaterial Upstream (Raw Materials)

Table 159. Global Aerospace Metamaterial Typical Customers

Table 160. Aerospace Metamaterial Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Aerospace Metamaterial Picture

Figure 2. World Aerospace Metamaterial Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Aerospace Metamaterial Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Aerospace Metamaterial Production (2021-2032) & (Units)

Figure 5. World Aerospace Metamaterial Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Aerospace Metamaterial Production Value Market Share by Region (2021-2032)

Figure 7. World Aerospace Metamaterial Production Market Share by Region (2021-2032)

Figure 8. North America Aerospace Metamaterial Production (2021-2032) & (Units)

Figure 9. Europe Aerospace Metamaterial Production (2021-2032) & (Units)

Figure 10. China Aerospace Metamaterial Production (2021-2032) & (Units)

Figure 11. Japan Aerospace Metamaterial Production (2021-2032) & (Units)

Figure 12. India Aerospace Metamaterial Production (2021-2032) & (Units)

Figure 13. Southeast Asia Aerospace Metamaterial Production (2021-2032) & (Units)

Figure 14. Aerospace Metamaterial Market Drivers

Figure 15. Factors Affecting Demand

Figure 16. World Aerospace Metamaterial Consumption (2021-2032) & (Units)

Figure 17. World Aerospace Metamaterial Consumption Market Share by Region (2021-2032)

Figure 18. United States Aerospace Metamaterial Consumption (2021-2032) & (Units)

Figure 19. China Aerospace Metamaterial Consumption (2021-2032) & (Units)

Figure 20. Europe Aerospace Metamaterial Consumption (2021-2032) & (Units)

Figure 21. Japan Aerospace Metamaterial Consumption (2021-2032) & (Units)

Figure 22. South Korea Aerospace Metamaterial Consumption (2021-2032) & (Units)

Figure 23. ASEAN Aerospace Metamaterial Consumption (2021-2032) & (Units)

Figure 24. India Aerospace Metamaterial Consumption (2021-2032) & (Units)

Figure 25. Producer Shipments of Aerospace Metamaterial by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 26. Global Four-firm Concentration Ratios (CR4) for Aerospace Metamaterial Markets in 2025

Figure 27. Global Four-firm Concentration Ratios (CR8) for Aerospace Metamaterial Markets in 2025

Figure 28. United States VS China: Aerospace Metamaterial Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Aerospace Metamaterial Production Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: Aerospace Metamaterial Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States Based Manufacturers Aerospace Metamaterial Production Market Share 2025

Figure 32. China Based Manufacturers Aerospace Metamaterial Production Market Share 2025

Figure 33. Rest of World Based Manufacturers Aerospace Metamaterial Production Market Share 2025

Figure 34. World Aerospace Metamaterial Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 35. World Aerospace Metamaterial Production Value Market Share by Type in 2025

Figure 36. Electromagnetic Stealth Metamaterials

Figure 37. Metasurface Spaceborne Antennas

Figure 38. Lightweight Load-Bearing Lattice Metamaterials

Figure 39. Vibro-Acoustic Metamaterials

Figure 40. Thermo-Mechanical Metamaterials

Figure 41. World Aerospace Metamaterial Production Market Share by Type (2021-2032)

Figure 42. World Aerospace Metamaterial Production Value Market Share by Type (2021-2032)

Figure 43. World Aerospace Metamaterial Average Price by Type (2021-2032) & (US\$/Unit)

Figure 44. World Aerospace Metamaterial Production Value by Form, (USD Million), 2021 & 2025 & 2032

Figure 45. World Aerospace Metamaterial Production Value Market Share by Form in 2025

Figure 46. Metamaterial Skins & Coatings

Figure 47. Metamaterial Spaceborne Antennas & Radomes

Figure 48. Lattice & Architected Structural Components

Figure 49. Vibration-Isolation Mounts & Dampers

Figure 50. Thermal Protection & Control Metastructures

Figure 51. World Aerospace Metamaterial Production Market Share by Form (2021-2032)

Figure 52. World Aerospace Metamaterial Production Value Market Share by Form

(2021-2032)

Figure 53. World Aerospace Metamaterial Average Price by Form (2021-2032) & (US\$/Unit)

Figure 54. World Aerospace Metamaterial Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 55. World Aerospace Metamaterial Production Value Market Share by Application in 2025

Figure 56. Low Earth Orbit Satellite Constellations

Figure 57. Strategic Missiles & Reentry Vehicles

Figure 58. Deep-Space Probes & Space Telescopes

Figure 59. Commercial Launch Vehicles

Figure 60. Space Domain Awareness Satellites

Figure 61. World Aerospace Metamaterial Production Market Share by Application (2021-2032)

Figure 62. World Aerospace Metamaterial Production Value Market Share by Application (2021-2032)

Figure 63. World Aerospace Metamaterial Average Price by Application (2021-2032) & (US\$/Unit)

Figure 64. Aerospace Metamaterial Industry Chain

Figure 65. Aerospace Metamaterial Procurement Model

Figure 66. Aerospace Metamaterial Sales Model

Figure 67. Aerospace Metamaterial Sales Channels, Direct Sales, and Distribution

Figure 68. Methodology

Figure 69. Research Process and Data Source

I would like to order

Product name: Global Aerospace Metamaterial Supply, Demand and Key Producers, 2026-2032

Product link: <https://marketpublishers.com/r/GBB12E2A15C1EN.html>

Price: US\$ 4,480.00 (Single User License / Electronic Delivery)

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

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/GBB12E2A15C1EN.html>