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Global Mycelium-based Bio-materials Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Mycelium-based Bio-materials market size is expected to reach $ 6817 million by 2032, rising at a market growth of 10.4% CAGR during the forecast period (2026-2032).

Mycelium-Based Biomaterials are sustainable materials produced from the vegetative root-like network of fungi known as mycelium. By growing mycelium on agricultural or organic substrates, or by processing pure fungal structures, these materials form lightweight, biodegradable, and renewable alternatives to petroleum-based plastics, synthetic foams, leather, and certain construction materials. Their mechanical and physical properties can be tailored through species selection, substrate composition, and controlled growth conditions.Mycelium-based bio-materials are sustainable materials grown from the mycelium, the root-like vegetative network of fungi. By allowing mycelium to grow through and bind agricultural or organic waste substrates, or by processing pure mycelial structures, these materials form lightweight, biodegradable, and renewable alternatives to petroleum-based plastics, foams, leather, and construction materials. Their physical properties can be tailored through species selection, growth conditions, and substrate composition.In 2025, global mycelium-based biomaterials production reached approximately 71,078 tons, with an average global market price of around US$ 50,000 per ton. Annual production capacity is 73,181 ton. Gross Profit Margin: 35.20%.The industry chain of mycelium-based biomaterials begins upstream with agricultural byproducts such as straw, sawdust, and corn husks, which serve as low-cost growth substrates. Midstream players include biotechnology firms that cultivate fungal strains, optimize growth conditions, and process the resulting materials into usable forms like packaging molds, panels, or leather-like sheets. Downstream, these materials are integrated into end-use industries including sustainable packaging, green construction, fashion, and interior design, where brands and manufacturers adopt

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them as eco-friendly alternatives to plastics, foams, and animal leather.Mycelium-based biomaterials represent one of the most promising directions in sustainable materials science because production relies more on biological growth than energy-intensive manufacturing. As scaling technologies improve and consistency challenges are solved, costs are likely to decline, enabling wider adoption beyond niche eco-conscious markets. However, success will depend on balancing performance, durability, and price competitiveness with conventional materials, as well as building consumer and industry trust in bio-grown products.

This report studies the global Mycelium-based Bio-materials production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Mycelium-based Bio-materials 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 Mycelium-based Bio-materials that contribute to its increasing demand across many markets.

Highlights and key features of the study
Global Mycelium-based Bio-materials total production and demand, 2021-2032, (Kilotons)
Global Mycelium-based Bio-materials total production value, 2021-2032, (USD Million)
Global Mycelium-based Bio-materials production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)
Global Mycelium-based Bio-materials consumption by region & country, CAGR, 2021-2032 & (Kilotons)
U.S. VS China: Mycelium-based Bio-materials domestic production, consumption, key domestic manufacturers and share
Global Mycelium-based Bio-materials production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)
Global Mycelium-based Bio-materials production by Product Form, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)
Global Mycelium-based Bio-materials production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Mycelium-based Bio-materials 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 Ecovative Design (United States),

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MycoWorks (United States), Myconom Biomaterials (Turkey), Grown.bio (Netherlands), Really Clever (United States), Polybion (Spain & Mexico), Mycela Labs (Poland), Mylab (Poland), MycoFutures(Canada), Mogu S.r.l. (Italy), 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 Mycelium-based Bio-materials 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 Product Form, 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 Mycelium-based Bio-materials Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Mycelium-based Bio-materials Market, Segmentation by Product Form:

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Rigid Molded Products

Flexible Sheet & Foam-Like Materials

Surface Materials

Loose-Fill or Particulate Materials

Global Mycelium-based Bio-materials Market, Segmentation by Material Structure Type:

Mycelium Composite Materials

Pure Mycelium Materials

Mycelium Coated Materials

Mycelium-Based Hybrid Materials

Global Mycelium-based Bio-materials Market, Segmentation by Biodegradability Level:

Fully Biodegradable Products

Partially Biodegradable Products

Durability-Enhanced Biobased Products

Reusable Long-Life Products

Global Mycelium-based Bio-materials Market, Segmentation by Application:

Packaging

Construction

Textile

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Furniture

Agricultural & Environmental

Companies Profiled:

Ecovative Design (United States)

MycoWorks (United States)

Myconom Biomaterials (Turkey)

Grown.bio (Netherlands)

Really Clever (United States)

Polybion (Spain & Mexico)

Mycela Labs (Poland)

Mylab (Poland)

MycoFutures(Canada)

Mogu S.r.l. (Italy)

Magical Mushroom (United Kingdom)

YITO Pack (China)

JunZhen Biotech (China)

MycoTile (Kenya)

Mycelium Material (Netherlands)

Kineco Mycelium (Netherlands)

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Mycomorph (Greece)

BioTech Mycotech Lab (Indonesia)

Monterr Lab (Mexico)

NEFFA(Dutch)

Key Questions Answered:

1. How big is the global Mycelium-based Bio-materials market?
2. What is the demand of the global Mycelium-based Bio-materials market?
3. What is the year over year growth of the global Mycelium-based Bio-materials market?
4. What is the production and production value of the global Mycelium-based Bio-materials market?
5. Who are the key producers in the global Mycelium-based Bio-materials market?
6. What are the growth factors driving the market demand?

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