

# Global Mesophase Pitch-Based Carbon Fiber Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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## Abstracts

According to our (Global Info Research) latest study, the global Mesophase Pitch-Based Carbon Fiber market size was valued at USD 896.2 million in 2023 and is forecast to a readjusted size of USD 1386.4 million by 2030 with a CAGR of 6.4% during review period.

Mesophase pitch-based carbon fibers are a type of high-performance carbon fibers that are derived from a specific precursor material called mesophase pitch. Mesophase pitch is a liquid crystalline substance that forms when certain petroleum or coal tar pitches are heated and undergo a thermal transformation.

The production of mesophase pitch-based carbon fibers involves several steps. First, the mesophase pitch is spun into fibers using a process called melt spinning or wet spinning. The fibers are then stabilized by heating them in an oxygen-rich environment, which causes the pitch to cross-link and convert into a solid carbonaceous material. The stabilization process helps to maintain the fiber's shape and prevent shrinkage during subsequent carbonization.

Mesophase pitch-based carbon fibers are known for their excellent mechanical properties, including high tensile strength, high modulus of elasticity, and low thermal expansion. They exhibit superior strength-to-weight ratio compared to other types of carbon fibers, making them suitable for applications where lightweight and high-strength materials are required.

Mesophase pitch-based carbon fibers have a series of excellent properties such as high specific modulus, high specific strength, good thermal conductivity, corrosion

resistance, creep resistance, low thermal expansion coefficient, high temperature resistance, and electromagnetic shielding.

Global 5 largest manufacturers of Mesophase Pitch-Based Carbon Fiber are Mitsubishi Chemical, Solvay, Nippon Graphite Fiber, Liaoning Novcarb and Jining Carbon Group, which make up about 99%. Among them, Mitsubishi Chemical is the leader with about 69% market share.

Japan is the largest market, with a share about 78%, followed by North America and China, with share about 19% and 1%. In terms of product type, Continuous Fiber occupy the largest share of the total market, about 64%. And in terms of product application, the largest application is Aerospace & Defense, followed by Industrial Manufacturing.

The Global Info Research report includes an overview of the development of the Mesophase Pitch-Based Carbon Fiber industry chain, the market status of Aerospace & Defense (Chopped Fiber, Continuous Fiber), Industrial Manufacturing (Chopped Fiber, Continuous Fiber), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Mesophase Pitch-Based Carbon Fiber.

Regionally, the report analyzes the Mesophase Pitch-Based Carbon Fiber markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Mesophase Pitch-Based Carbon Fiber market, with robust domestic demand, supportive policies, and a strong manufacturing base.

**Key Features:**

The report presents comprehensive understanding of the Mesophase Pitch-Based Carbon Fiber market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Mesophase Pitch-Based Carbon Fiber industry.

The report involves analyzing the market at a macro level:

**Market Sizing and Segmentation:** Report collect data on the overall market size, including the sales quantity (MT), revenue generated, and market share of different by

Type (e.g., Chopped Fiber, Continuous Fiber).

**Industry Analysis:** Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Mesophase Pitch-Based Carbon Fiber market.

**Regional Analysis:** The report involves examining the Mesophase Pitch-Based Carbon Fiber market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

**Market Projections:** Report covers the gathered data and analysis to make future projections and forecasts for the Mesophase Pitch-Based Carbon Fiber market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Mesophase Pitch-Based Carbon Fiber:

**Company Analysis:** Report covers individual Mesophase Pitch-Based Carbon Fiber manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

**Consumer Analysis:** Report covers data on consumer behaviour, preferences, and attitudes towards Mesophase Pitch-Based Carbon Fiber This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Aerospace & Defense, Industrial Manufacturing).

**Technology Analysis:** Report covers specific technologies relevant to Mesophase Pitch-Based Carbon Fiber. It assesses the current state, advancements, and potential future developments in Mesophase Pitch-Based Carbon Fiber areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Mesophase Pitch-Based Carbon Fiber market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

## Market Segmentation

Mesophase Pitch-Based Carbon Fiber market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

### Market segment by Type

Chopped Fiber

Continuous Fiber

### Market segment by Application

Aerospace & Defense

Industrial Manufacturing

Electronic Products

Others

### Major players covered

Solvay

Nippon Graphite Fiber

Mitsubishi Chemical

Liaoning Novcarb

Jining Carbon Group

## Zhongli New Materials

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 Mesophase Pitch-Based Carbon Fiber product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Mesophase Pitch-Based Carbon Fiber, with price, sales, revenue and global market share of Mesophase Pitch-Based Carbon Fiber from 2019 to 2024.

Chapter 3, the Mesophase Pitch-Based Carbon Fiber competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Mesophase Pitch-Based Carbon Fiber breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

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 2017 to 2023. and Mesophase Pitch-Based Carbon Fiber market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

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 Mesophase Pitch-Based Carbon Fiber.

Chapter 14 and 15, to describe Mesophase Pitch-Based Carbon Fiber sales channel, distributors, customers, research findings and conclusion.

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