

Global Mesophase Pitch-Based Carbon Fiber Supply, Demand and Key Producers, 2023-2029

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Abstracts

The global Mesophase Pitch-Based Carbon Fiber market size is expected to reach \$ 1386.4 million by 2029, rising at a market growth of 6.4% CAGR during the forecast period (2023-2029).

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.

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.

This report studies the global Mesophase Pitch-Based Carbon Fiber production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Mesophase Pitch-Based Carbon Fiber, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of Mesophase Pitch-Based Carbon Fiber that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Mesophase Pitch-Based Carbon Fiber total production and demand, 2018-2029, (MT)

Global Mesophase Pitch-Based Carbon Fiber total production value, 2018-2029, (USD Million)

Global Mesophase Pitch-Based Carbon Fiber production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (MT)

Global Mesophase Pitch-Based Carbon Fiber consumption by region & country, CAGR, 2018-2029 & (MT)

U.S. VS China: Mesophase Pitch-Based Carbon Fiber domestic production, consumption, key domestic manufacturers and share

Global Mesophase Pitch-Based Carbon Fiber production by manufacturer, production,

price, value and market share 2018-2023, (USD Million) & (MT)

Global Mesophase Pitch-Based Carbon Fiber production by Type, production, value, CAGR, 2018-2029, (USD Million) & (MT)

Global Mesophase Pitch-Based Carbon Fiber production by Application production, value, CAGR, 2018-2029, (USD Million) & (MT).

This reports profiles key players in the global Mesophase Pitch-Based Carbon Fiber 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 Solvay, Nippon Graphite Fiber, Mitsubishi Chemical, Liaoning Novcarb, Jining Carbon Group and Zhongli New Materials, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Mesophase Pitch-Based Carbon Fiber market.

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (MT) and average price (USD/Kg) by manufacturer, by Type, and by Application. Data is given for the years 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global Mesophase Pitch-Based Carbon Fiber Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Mesophase Pitch-Based Carbon Fiber Market, Segmentation by Type

Chopped Fiber

Continuous Fiber

Global Mesophase Pitch-Based Carbon Fiber Market, Segmentation by Application

Aerospace & Defense

Industrial Manufacturing

Electronic Products

Others

Companies Profiled:

Solvay

Nippon Graphite Fiber

Mitsubishi Chemical

Liaoning Novcarb

Jining Carbon Group

Zhongli New Materials

Key Questions Answered

1. How big is the global Mesophase Pitch-Based Carbon Fiber market?
2. What is the demand of the global Mesophase Pitch-Based Carbon Fiber market?
3. What is the year over year growth of the global Mesophase Pitch-Based Carbon Fiber market?
4. What is the production and production value of the global Mesophase Pitch-Based Carbon Fiber market?
5. Who are the key producers in the global Mesophase Pitch-Based Carbon Fiber market?
6. What are the growth factors driving the market demand?

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