

Carbon & Graphite Felt Market by Product Type (Soft Felt and Rigid Felt), Raw Material type (PAN, Rayon, and Pitch), Type (Carbon Felt and Graphite Felt), Application (Furnace, Batteries, and Filters), and Region - Global Forecast 2029

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Abstracts

The carbon & graphite felt market is projected to grow from USD 551 million in 2024 to USD 871 million by 2029, at a CAGR of 9.6% during the forecast period. Graphite felt gets produced from the pure form of carbon, that is graphite fiber. Thus, it contains a high percentage of carbon along with high purity. Graphite felt is more stable as compared to carbon felt and hence get used for variety of high-temperature applications.

“In terms of value, rigid segment of carbon & graphite felt accounted for the second-largest market share of the global carbon & graphite felt market.”

Based on the product type, rigid felt segment of the carbon & graphite felt market accounted for the second-largest share in 2023. Rigid felt gets manufactured by carbonizing and graphitizing the carbon fiber. These felts are thermal erosion resistant, shock resistant, and also remains stable and in the shape during its operating life.

“The rayon raw material segment is projected to register a second-highest CAGR during the forecast period.”

Rayon-based carbon felt and graphite felt has better insulating properties along with very low values of thermal conductivity as compared to PAN-based felts, especially under the higher temperature applications. However, rayon-based felts are difficult to process and more costlier than PAN-based carbon & graphite felt. Rayon-based carbon

& graphite felt offers various advantages including good specific heat capacity, high-temperature resistance, high purity, low flash, no oil stain, low weight, corrosion resistance, and flexibility.

“During the forecast years, the carbon & graphite felt market in Europe region is projected to register the second-highest CAGR.”

The carbon & graphite felt market has been studied in North America, Asia Pacific, Europe, Latin America and Middle East and Africa. In 2023, Asia Pacific region accounted for the largest market share in terms of value and volume. Europe accounted for the second-largest market share in 2023. The European carbon & graphite felt market is expected to show significant growth in the upcoming years attributed to the increasing demand for renewable energy across the world.

This study has been validated through primary interviews with industry experts globally. These primary sources have been divided into the following three categories:

By Company Type- Tier 1- 40%, Tier 2- 33%, and Tier 3- 27%

By Designation- C Level- 50%, Director Level- 30%, and Others- 20%

By Region- North America- 15%, Europe- 50%, Asia Pacific (APAC) - 20%, Latin America-5%, Middle East & Africa -10%.

The report provides a comprehensive analysis of company profiles:

Prominent companies include SGL Carbon (Germany), Toray Industries, Inc. (Japan), Mersen (France), Morgan Advanced Materials PLC (UK), Kureha Corporation (Japan), Nippon Carbon Co., Ltd. (Japan), Beijing Great Wall Co., Ltd. (China), among others.

Research Coverage

This research report categorizes the Carbon & Graphite Felt Market by Type (Carbon Felt, and Graphite Felt), Raw Material Type (PAN, Pitch and Rayon), Product Type (Soft Felt, and Rigid Felt), Application (Furnace, Batteries, Filtration, and Others), and Region (North America, Europe, Asia Pacific, the Middle East & Africa, and Latin America). The scope of the report includes detailed information about the major factors influencing the growth of the carbon & graphite felt market, such as drivers, restraints, challenges, and

opportunities. A thorough examination of the key industry players has been conducted in order to provide insights into their business overview, solutions, and services, key strategies, contracts, partnerships, and agreements. New product and service launches, mergers and acquisitions, and recent developments in the carbon & graphite felt market are all covered. This report includes a competitive analysis of upcoming startups in the carbon & graphite felt market ecosystem.

Reasons to buy this report:

The report will help the market leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall carbon & graphite felt market and the subsegments. This report will help stakeholders understand the competitive landscape and gain more insights to position their businesses better and plan suitable go-to-market strategies. The report also helps stakeholders understand the pulse of the market and provides them with information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

Analysis of key drivers (Increasing demand for high performance batteries across the globe), restraints (high cost of manufacturing), opportunities (Growing renewable energy sector), and challenges (Production of low-cost carbon fiber) influencing the growth of the carbon & graphite felt market

Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the carbon & graphite felt market

Market Development: Comprehensive information about lucrative markets – the report analyses the carbon & graphite felt market across varied regions.

Market Diversification: Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the carbon & graphite felt market

Competitive Assessment: In-depth assessment of market shares, growth strategies and service offerings of leading players like SGL Carbon (Germany), Toray Industries, Inc. (Japan), Mersen (France), Morgan Advanced Materials PLc (UK), Kureha Corporation

(Japan), Nippon Carbon Co., Ltd. (Japan), Beijing Great Wall Co., Ltd. (China), Chemshine Carbon Co., Ltd. (China), CM Carbon Co., Ltd. (China), among others in the carbon & graphite felt market

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*Details on Business overview, Products/Solutions/Services offered, Recent Developments, MnM view, Key strengths, Strategic choices, Weaknesses and competitive threats might not be captured in case of unlisted companies.

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About

The report "Carbon Felt and Graphite Felt Market by Raw Material type (PAN, Rayon, and Pitch), Product Type (Soft Felt and Rigid Felt), Type (Carbon Felt and Graphite Felt), Application (Furnace, Batteries, and Filters), and Region - Global Forecast 2023", The carbon felt and graphite felt market is projected to grow from USD 292.7 million in 2018 to USD 460.8 million by 2023, at a CAGR of 9.5% between 2018 and 2023.

Major companies profiled in this report include:

SGL Group (Germany), Toray Industries, Inc. (Japan), Kureha Corporation (Japan), Nippon Carbon Co., Ltd. (Japan), Beijing Great Wall Co., Ltd. (China), Chemshine Carbon Co., Ltd. (China), CM Carbon Co., Ltd. (China), and Gansu Haoshi Carbon Fiber Co., Ltd (China). among others.

These companies have a strong presence in the carbon felt and graphite felt market and are focusing on expanding their business through various strategies and increasing their product portfolio.

This report covers the carbon felt and graphite felt market and forecasts its size till 2023. It includes the segmentation of the carbon felt and graphite felt market based on raw material type, type, product type, application, and region. The Porter's five forces analysis and key market dynamics such as drivers, restraints, challenges, and opportunities influencing the growth of the carbon felt and graphite felt market have been discussed in the report. The report also provides company profiles of key players operating in the carbon felt and graphite felt market.

Carbon felt and graphite felt offers high-temperature insulation and structural stability, making them suitable for use in high-temperature furnaces for energy saving and high-performance batteries.

Based on raw material type, the PAN-based carbon felt and graphite felt market is projected to register the highest CAGR during the forecast period

The carbon felt and graphite felt market is dominated by the PAN-based carbon felt and graphite felt segment, in terms of value and volume. PAN-based carbon felt and graphite felt is the most popular raw material type widely used, as it has easy processing and high insulating properties as well as is cost effective.

Based on product type, the soft carbon felt and graphite felt market is projected to register the highest CAGR during the forecast period

Soft felt is the dominant product type of carbon felt and graphite felt, in terms of value and volume. This felt finds wide applications in induction heated vacuum furnaces; furnaces with an inert gas like atmosphere such as induction furnaces, degassing and carburizing furnaces, brazing, and annealing furnaces; sintering furnaces for hard metals; carbon fiber furnaces; and graphitizing furnaces.

The furnace application segment is projected to account for the largest market share during the forecast period

Carbon felts and graphite felts offer heat insulation and help in increasing the efficiency of the furnace. In furnaces, carbon and graphite felts are used for insulation purpose, as they offer low thermal conductivity, low specific heat, and permits rapid heating and cooling of the furnace. The growing industries such as vacuum and high-pressure sintering, crystal growing, vacuum treatment, and casting need high-temperature furnaces, which is expected to increase the demand for carbon and graphite felts during the forecast period.

APAC is estimated to be the largest carbon felt and graphite felt market in 2018, in terms of volume

APAC is the key carbon felt and graphite felt market. The growing demand for carbon and graphite felts along with a string focus on emission control policies, energy savings, environmentally friendly products, and industry consolidation have encouraged innovations and technological developments in the market. This has made the region a major hub for manufacturing carbon and graphite felts. China is the world's largest producer and consumer of industrial heating systems and furnaces, thereby driving the demand for carbon and graphite felts in the region.

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