

Global PAN-Based Carbon Fiber Felt Market Growth 2026-2032

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Abstracts

The global PAN-Based Carbon Fiber Felt market size is predicted to grow from US\$ 1485 million in 2025 to US\$ 2055 million in 2032; it is expected to grow at a CAGR of 4.8% from 2026 to 2032.

In 2025, global PAN-Based Carbon Fiber Felt production reached approximately 30k tons , with an average global market price of around US\$50 per kg.

PAN-based carbon fiber felt is a nonwoven porous carbon material made from polyacrylonitrile (PAN) precursor fibers through stabilization, carbonization, and graphitization processes, followed by needle punching or wet forming. It features excellent high-temperature resistance (operating above 2000°C in inert atmospheres), low thermal conductivity, high specific surface area, good chemical stability, and electrical conductivity. It is widely used in high-temperature furnace insulation, fuel cell gas diffusion layers, electrode materials, and filtration/adsorption applications, serving as a critical functional material in thermal and electrochemical systems.

The upstream of the PAN-based carbon fiber felt industry includes PAN precursor fiber suppliers and petrochemical companies (acrylonitrile providers), as well as equipment manufacturers for carbonization and graphitization furnaces. Representative companies include SGL Carbon and Toray Industries. The midstream consists of carbon fiber and felt manufacturers such as Kureha Corporation and Beijing Great Wall Co., which convert fibers into felt products. Downstream applications include fuel cell companies like Ballard Power Systems, photovoltaic and semiconductor furnace equipment suppliers, metallurgical industries, and environmental filtration sectors, forming a complete value chain from petrochemicals to advanced industrial applications.

United States market for PAN-Based Carbon Fiber Felt is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for PAN-Based Carbon Fiber Felt is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for PAN-Based Carbon Fiber Felt is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key PAN-Based Carbon Fiber Felt players cover SGL Carbon, CGT Carbon, Morgan Advanced Materials, Mersen, AvCarb, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "PAN-Based Carbon Fiber Felt Industry Forecast" looks at past sales and reviews total world PAN-Based Carbon Fiber Felt sales in 2025, providing a comprehensive analysis by region and market sector of projected PAN-Based Carbon Fiber Felt sales for 2026 through 2032. With PAN-Based Carbon Fiber Felt sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world PAN-Based Carbon Fiber Felt industry.

This Insight Report provides a comprehensive analysis of the global PAN-Based Carbon Fiber Felt landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on PAN-Based Carbon Fiber Felt portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global PAN-Based Carbon Fiber Felt market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for PAN-Based Carbon Fiber Felt and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global PAN-Based Carbon Fiber Felt.

This report presents a comprehensive overview, market shares, and growth

opportunities of PAN-Based Carbon Fiber Felt market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Carbon Felt

Graphite Felt

Segmentation by Operating Temperature:

1000 ? 2200?

2000 ? 3000?

Others

Segmentation by Application:

Automotive

Aerospace

Wind Power

Architecture

Photovoltaics

Semiconductors

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

SGL Carbon

CGT Carbon

Morgan Advanced Materials

Mersen

AvCarb

HPMS Graphite

Noboran Ltd

Nippon Carbon

Toray

Mitsubishi Chemical

Teijin Limited

Kureha Corporation

AKSA

Taekwang

Beijing Great Wall

Hongchang New Materials

Lingken New Material

Mige New Material

Junrui Carbon Fiber Materials

BOST Carbon Materials

Sinotek Materials

Haoshi Carbon Fiber

Weiji Carbon-tech

KBC Carbon

Runsheng Graphite Felting

Fulai Carbon Fiber

Key Questions Addressed in this Report

What is the 10-year outlook for the global PAN-Based Carbon Fiber Felt market?

What factors are driving PAN-Based Carbon Fiber Felt market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do PAN-Based Carbon Fiber Felt market opportunities vary by end market size?

How does PAN-Based Carbon Fiber Felt break out by Type, by Application?

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