

Global PAN-Based Carbon Fiber Felt Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global PAN-Based Carbon Fiber Felt market size is expected to reach \$ 2127 million by 2032, rising at a market growth of 4.5% CAGR during the forecast period (2026-2032).

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.

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

This report is a detailed and comprehensive analysis of the world market for PAN-Based Carbon Fiber Felt 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 PAN-Based Carbon Fiber Felt that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global PAN-Based Carbon Fiber Felt total production and demand, 2021-2032, (Kilotons)

Global PAN-Based Carbon Fiber Felt total production value, 2021-2032, (USD Million)

Global PAN-Based Carbon Fiber Felt production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global PAN-Based Carbon Fiber Felt consumption by region & country, CAGR, 2021-2032 & (Kilotons)

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

Global PAN-Based Carbon Fiber Felt production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global PAN-Based Carbon Fiber Felt production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global PAN-Based Carbon Fiber Felt production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global PAN-Based Carbon Fiber Felt 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 SGL Carbon, CGT Carbon, Morgan Advanced Materials, Mersen, AvCarb, HPMS Graphite, Noboran Ltd, Nippon Carbon, Toray, Mitsubishi Chemical, 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 PAN-Based Carbon Fiber Felt market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) and average price (US\$/kg) by manufacturer, by Type, 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 PAN-Based Carbon Fiber Felt Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global PAN-Based Carbon Fiber Felt Market, Segmentation by Type:

Carbon Felt

Graphite Felt

Global PAN-Based Carbon Fiber Felt Market, Segmentation by Operating Temperature:

1000 ? 2200?

2000 ? 3000?

Others

Global PAN-Based Carbon Fiber Felt Market, Segmentation by Application:

Automotive

Aerospace

Wind Power

Architecture

Photovoltaics

Semiconductors

Others

Companies Profiled:

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 Answered:

1. How big is the global PAN-Based Carbon Fiber Felt market?

Global PAN-Based Carbon Fiber Felt Supply, Demand and Key Producers, 2026-2032

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

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