

Global Preoxidized Fiber-Based Carbon Felt Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G7523E453428EN.html>

Date: April 2026

Pages: 131

Price: US\$ 3,480.00 (Single User License)

ID: G7523E453428EN

Abstracts

According to our (Global Info Research) latest study, the global Preoxidized Fiber-Based Carbon Felt market size was valued at US\$ 408 million in 2025 and is forecast to a readjusted size of US\$ 705 million by 2032 with a CAGR of 8.7% during review period.

Preoxidized Fiber-Based Carbon Felt is a high-temperature resistant nonwoven material produced by needling or felting preoxidized polyacrylonitrile (PAN) fibers followed by carbonization and optional graphitization, forming a lightweight, porous, thermally stable carbon felt widely used for thermal insulation, energy storage electrodes, filtration, and high-temperature industrial applications.

The upstream segment includes polyacrylonitrile precursor producers, specialty chemical suppliers, oxidation and carbonization equipment manufacturers and energy providers; the midstream consists of preoxidized fiber producers, nonwoven felting processors, carbonization and graphitization facilities, machining and surface treatment service providers; the downstream comprises industrial furnace manufacturers, flow battery system integrators, hydrogen energy equipment suppliers, semiconductor crystal growth equipment companies, aerospace component manufacturers and metallurgical enterprises that integrate preoxidized fiber-based carbon felt into insulation systems, electrochemical devices and high temperature structural assemblies.

Ongoing and planned projects include expansion of carbon felt production lines in Asia to support vanadium redox flow battery deployment, construction of integrated PAN precursor to carbon felt facilities for cost reduction, establishment of high temperature graphitization lines targeting semiconductor and aerospace markets, capacity additions

for hydrogen energy electrode materials, automation upgrades in needling and carbonization workshops, environmental treatment system enhancements for emission compliance, and strategic joint ventures between energy storage companies and carbon material manufacturers to secure long term supply agreements.

2025 Global Market Sales Volume: 18,000 Tons. Average Global Market Price: USD 22,000 Per Ton. Market Average Gross Profit Margin: 35%.

The Preoxidized Fiber-Based Carbon Felt market is experiencing steady growth driven primarily by expansion in energy storage systems, high temperature industrial insulation demand, and advanced semiconductor manufacturing. The rise of vanadium redox flow batteries has significantly increased demand for conductive carbon felt electrodes, while industrial furnaces continue to require lightweight, thermally stable insulation materials. Technological advancements in carbonization and graphitization processes have improved product uniformity and conductivity, enhancing suitability for electrochemical applications. Compared with traditional graphite blocks or rigid insulation, carbon felt offers superior flexibility and easier installation, contributing to market adoption.

Regionally, Asia-Pacific dominates production capacity due to strong PAN precursor manufacturing and growing energy storage deployment, particularly in China. North America and Europe represent important demand centers for high performance furnace insulation and flow battery systems. Emerging hydrogen energy projects and semiconductor expansion plans are further stimulating demand in developed economies.

Market opportunities lie in large scale grid energy storage deployment, hydrogen production systems, semiconductor crystal growth furnaces, and aerospace thermal shielding. However, risks include raw material price volatility of PAN precursor, high energy consumption during carbonization, environmental compliance costs, and dependency on policy driven energy storage investments. Market trends show increasing vertical integration from precursor to finished carbon felt, product customization for electrochemical performance, and improvements in oxidation resistance coatings. Competitive characteristics are defined by technical barriers in uniform felting and high temperature processing, capital intensive production equipment, and customer qualification cycles, resulting in a moderately concentrated market with specialized manufacturers competing on conductivity, thermal performance, durability and long term supply stability rather than price alone.

This report is a detailed and comprehensive analysis for global Preoxidized Fiber-Based

Carbon Felt market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Preoxidized Fiber-Based Carbon Felt market size and forecasts, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Preoxidized Fiber-Based Carbon Felt market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Preoxidized Fiber-Based Carbon Felt market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Preoxidized Fiber-Based Carbon Felt market shares of main players, shipments in revenue (\$ Million), sales quantity (Kilotons), and ASP (US\$/Ton), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Preoxidized Fiber-Based Carbon Felt

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Preoxidized Fiber-Based Carbon Felt market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include SGL Carbon, Sinotek Materials,

Nippon Carbon, Morgan Advanced Materials, Mersen, Kureha, HPMS Graphite, Gansu Haoshi Carbon Fiber, Chemshine Carbon, CGT Carbon GmbH, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Preoxidized Fiber-Based Carbon Felt market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

PAN Based Felt

Rayon Based Felt

Others

Market segment by Density Level

Low Density Carbon Felt

Medium Density Carbon Felt

High Density Carbon Felt

Market segment by Thickness

Thin Gauge Felt

Medium Thickness Felt

Heavy Thickness Felt

Market segment by Application

Thermal Insulation Material

Electrode Material

Composite Material

Others

Major players covered

SGL Carbon

Sinotek Materials

Nippon Carbon

Morgan Advanced Materials

Mersen

Kureha

HPMS Graphite

Gansu Haoshi Carbon Fiber

Chemshine Carbon

CGT Carbon GmbH

ANHUIHONGCHANG NEW MATERIALS CO.,LTD

BOST Carbon Materials Co., Ltd

AvCarb

Hunan Feioute New Material Co.,Ltd

Jiangsu Mige New Material Co.?Ltd

CFC Carbon

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 Preoxidized Fiber-Based Carbon Felt product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Preoxidized Fiber-Based Carbon Felt, with price, sales quantity, revenue, and global market share of Preoxidized Fiber-Based Carbon Felt from 2021 to 2026.

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

Chapter 4, the Preoxidized Fiber-Based Carbon Felt breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

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 2021 to 2026. and Preoxidized Fiber-Based Carbon Felt market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Preoxidized Fiber-Based Carbon Felt.

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

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