

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

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Abstracts

According to our (Global Info Research) latest study, the global PAN-Based Carbon Fiber Felt market size was valued at US\$ 1562 million in 2025 and is forecast to a readjusted size of US\$ 2127 million by 2032 with a CAGR of 4.5% during review period.

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 is a detailed and comprehensive analysis for global PAN-Based Carbon Fiber 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 PAN-Based Carbon Fiber Felt market size and forecasts, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/kg), 2021-2032

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

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

Global PAN-Based Carbon Fiber Felt market shares of main players, shipments in revenue (\$ Million), sales quantity (Kilotons), and ASP (US\$/kg), 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 PAN-Based Carbon Fiber 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 PAN-Based Carbon Fiber 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, 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.

Market Segmentation

PAN-Based Carbon Fiber 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

Carbon Felt

Graphite Felt

Market segment by Operating Temperature

1000 ? 2200?

2000 ? 3000?

Others

Market segment by Application

Automotive

Aerospace

Wind Power

Architecture

Photovoltaics

Semiconductors

Others

Major players covered

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

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

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

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

Chapter 4, the PAN-Based Carbon Fiber 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 PAN-Based Carbon Fiber 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 PAN-Based Carbon Fiber Felt.

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

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global PAN-Based Carbon Fiber Felt Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Carbon Felt

1.3.3 Graphite Felt

1.4 Market Analysis by Operating Temperature

1.4.1 Overview: Global PAN-Based Carbon Fiber Felt Consumption Value by Operating Temperature: 2021 Versus 2025 Versus 2032

1.4.2 1000 ? 2200?

1.4.3 2000 ? 3000?

1.4.4 Others

1.5 Market Analysis by Application

1.5.1 Overview: Global PAN-Based Carbon Fiber Felt Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.5.2 Automotive

1.5.3 Aerospace

1.5.4 Wind Power

1.5.5 Architecture

1.5.6 Photovoltaics

1.5.7 Semiconductors

1.5.8 Others

1.6 Global PAN-Based Carbon Fiber Felt Market Size & Forecast

1.6.1 Global PAN-Based Carbon Fiber Felt Consumption Value (2021 & 2025 & 2032)

1.6.2 Global PAN-Based Carbon Fiber Felt Sales Quantity (2021-2032)

1.6.3 Global PAN-Based Carbon Fiber Felt Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 SGL Carbon

2.1.1 SGL Carbon Details

2.1.2 SGL Carbon Major Business

2.1.3 SGL Carbon PAN-Based Carbon Fiber Felt Product and Services

2.1.4 SGL Carbon PAN-Based Carbon Fiber Felt Sales Quantity, Average Price,

Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 SGL Carbon Recent Developments/Updates

2.2 CGT Carbon

2.2.1 CGT Carbon Details

2.2.2 CGT Carbon Major Business

2.2.3 CGT Carbon PAN-Based Carbon Fiber Felt Product and Services

2.2.4 CGT Carbon PAN-Based Carbon Fiber Felt Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.2.5 CGT Carbon Recent Developments/Updates

2.3 Morgan Advanced Materials

2.3.1 Morgan Advanced Materials Details

2.3.2 Morgan Advanced Materials Major Business

2.3.3 Morgan Advanced Materials PAN-Based Carbon Fiber Felt Product and Services

2.3.4 Morgan Advanced Materials PAN-Based Carbon Fiber Felt Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.3.5 Morgan Advanced Materials Recent Developments/Updates

2.4 Mersen

2.4.1 Mersen Details

2.4.2 Mersen Major Business

2.4.3 Mersen PAN-Based Carbon Fiber Felt Product and Services

2.4.4 Mersen PAN-Based Carbon Fiber Felt Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.4.5 Mersen Recent Developments/Updates

2.5 AvCarb

2.5.1 AvCarb Details

2.5.2 AvCarb Major Business

2.5.3 AvCarb PAN-Based Carbon Fiber Felt Product and Services

2.5.4 AvCarb PAN-Based Carbon Fiber Felt Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.5.5 AvCarb Recent Developments/Updates

2.6 HPMS Graphite

2.6.1 HPMS Graphite Details

2.6.2 HPMS Graphite Major Business

2.6.3 HPMS Graphite PAN-Based Carbon Fiber Felt Product and Services

2.6.4 HPMS Graphite PAN-Based Carbon Fiber Felt Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.6.5 HPMS Graphite Recent Developments/Updates

2.7 Noboran Ltd

2.7.1 Noboran Ltd Details

- 2.7.2 Noboran Ltd Major Business
- 2.7.3 Noboran Ltd PAN-Based Carbon Fiber Felt Product and Services
- 2.7.4 Noboran Ltd PAN-Based Carbon Fiber Felt Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.7.5 Noboran Ltd Recent Developments/Updates
- 2.8 Nippon Carbon
 - 2.8.1 Nippon Carbon Details
 - 2.8.2 Nippon Carbon Major Business
 - 2.8.3 Nippon Carbon PAN-Based Carbon Fiber Felt Product and Services
 - 2.8.4 Nippon Carbon PAN-Based Carbon Fiber Felt Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.8.5 Nippon Carbon Recent Developments/Updates
- 2.9 Toray
 - 2.9.1 Toray Details
 - 2.9.2 Toray Major Business
 - 2.9.3 Toray PAN-Based Carbon Fiber Felt Product and Services
 - 2.9.4 Toray PAN-Based Carbon Fiber Felt Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.9.5 Toray Recent Developments/Updates
- 2.10 Mitsubishi Chemical
 - 2.10.1 Mitsubishi Chemical Details
 - 2.10.2 Mitsubishi Chemical Major Business
 - 2.10.3 Mitsubishi Chemical PAN-Based Carbon Fiber Felt Product and Services
 - 2.10.4 Mitsubishi Chemical PAN-Based Carbon Fiber Felt Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.10.5 Mitsubishi Chemical Recent Developments/Updates
- 2.11 Teijin Limited
 - 2.11.1 Teijin Limited Details
 - 2.11.2 Teijin Limited Major Business
 - 2.11.3 Teijin Limited PAN-Based Carbon Fiber Felt Product and Services
 - 2.11.4 Teijin Limited PAN-Based Carbon Fiber Felt Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.11.5 Teijin Limited Recent Developments/Updates
- 2.12 Kureha Corporation
 - 2.12.1 Kureha Corporation Details
 - 2.12.2 Kureha Corporation Major Business
 - 2.12.3 Kureha Corporation PAN-Based Carbon Fiber Felt Product and Services
 - 2.12.4 Kureha Corporation PAN-Based Carbon Fiber Felt Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

- 2.12.5 Kureha Corporation Recent Developments/Updates
- 2.13 AKSA
 - 2.13.1 AKSA Details
 - 2.13.2 AKSA Major Business
 - 2.13.3 AKSA PAN-Based Carbon Fiber Felt Product and Services
 - 2.13.4 AKSA PAN-Based Carbon Fiber Felt Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.13.5 AKSA Recent Developments/Updates
- 2.14 Taekwang
 - 2.14.1 Taekwang Details
 - 2.14.2 Taekwang Major Business
 - 2.14.3 Taekwang PAN-Based Carbon Fiber Felt Product and Services
 - 2.14.4 Taekwang PAN-Based Carbon Fiber Felt Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.14.5 Taekwang Recent Developments/Updates
- 2.15 Beijing Great Wall
 - 2.15.1 Beijing Great Wall Details
 - 2.15.2 Beijing Great Wall Major Business
 - 2.15.3 Beijing Great Wall PAN-Based Carbon Fiber Felt Product and Services
 - 2.15.4 Beijing Great Wall PAN-Based Carbon Fiber Felt Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.15.5 Beijing Great Wall Recent Developments/Updates
- 2.16 Hongchang New Materials
 - 2.16.1 Hongchang New Materials Details
 - 2.16.2 Hongchang New Materials Major Business
 - 2.16.3 Hongchang New Materials PAN-Based Carbon Fiber Felt Product and Services
 - 2.16.4 Hongchang New Materials PAN-Based Carbon Fiber Felt Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.16.5 Hongchang New Materials Recent Developments/Updates
- 2.17 Lingken New Material
 - 2.17.1 Lingken New Material Details
 - 2.17.2 Lingken New Material Major Business
 - 2.17.3 Lingken New Material PAN-Based Carbon Fiber Felt Product and Services
 - 2.17.4 Lingken New Material PAN-Based Carbon Fiber Felt Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.17.5 Lingken New Material Recent Developments/Updates
- 2.18 Mige New Material
 - 2.18.1 Mige New Material Details
 - 2.18.2 Mige New Material Major Business

- 2.18.3 Mige New Material PAN-Based Carbon Fiber Felt Product and Services
- 2.18.4 Mige New Material PAN-Based Carbon Fiber Felt Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.18.5 Mige New Material Recent Developments/Updates
- 2.19 Junrui Carbon Fiber Materials
 - 2.19.1 Junrui Carbon Fiber Materials Details
 - 2.19.2 Junrui Carbon Fiber Materials Major Business
 - 2.19.3 Junrui Carbon Fiber Materials PAN-Based Carbon Fiber Felt Product and Services
 - 2.19.4 Junrui Carbon Fiber Materials PAN-Based Carbon Fiber Felt Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.19.5 Junrui Carbon Fiber Materials Recent Developments/Updates
- 2.20 BOST Carbon Materials
 - 2.20.1 BOST Carbon Materials Details
 - 2.20.2 BOST Carbon Materials Major Business
 - 2.20.3 BOST Carbon Materials PAN-Based Carbon Fiber Felt Product and Services
 - 2.20.4 BOST Carbon Materials PAN-Based Carbon Fiber Felt Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.20.5 BOST Carbon Materials Recent Developments/Updates
- 2.21 Sinotek Materials
 - 2.21.1 Sinotek Materials Details
 - 2.21.2 Sinotek Materials Major Business
 - 2.21.3 Sinotek Materials PAN-Based Carbon Fiber Felt Product and Services
 - 2.21.4 Sinotek Materials PAN-Based Carbon Fiber Felt Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.21.5 Sinotek Materials Recent Developments/Updates
- 2.22 Haoshi Carbon Fiber
 - 2.22.1 Haoshi Carbon Fiber Details
 - 2.22.2 Haoshi Carbon Fiber Major Business
 - 2.22.3 Haoshi Carbon Fiber PAN-Based Carbon Fiber Felt Product and Services
 - 2.22.4 Haoshi Carbon Fiber PAN-Based Carbon Fiber Felt Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.22.5 Haoshi Carbon Fiber Recent Developments/Updates
- 2.23 Weiji Carbon-tech
 - 2.23.1 Weiji Carbon-tech Details
 - 2.23.2 Weiji Carbon-tech Major Business
 - 2.23.3 Weiji Carbon-tech PAN-Based Carbon Fiber Felt Product and Services
 - 2.23.4 Weiji Carbon-tech PAN-Based Carbon Fiber Felt Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

- 2.23.5 Weiji Carbon-tech Recent Developments/Updates
- 2.24 KBC Carbon
 - 2.24.1 KBC Carbon Details
 - 2.24.2 KBC Carbon Major Business
 - 2.24.3 KBC Carbon PAN-Based Carbon Fiber Felt Product and Services
 - 2.24.4 KBC Carbon PAN-Based Carbon Fiber Felt Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.24.5 KBC Carbon Recent Developments/Updates
- 2.25 Runsheng Graphite Felting
 - 2.25.1 Runsheng Graphite Felting Details
 - 2.25.2 Runsheng Graphite Felting Major Business
 - 2.25.3 Runsheng Graphite Felting PAN-Based Carbon Fiber Felt Product and Services
 - 2.25.4 Runsheng Graphite Felting PAN-Based Carbon Fiber Felt Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.25.5 Runsheng Graphite Felting Recent Developments/Updates
- 2.26 Fulai Carbon Fiber
 - 2.26.1 Fulai Carbon Fiber Details
 - 2.26.2 Fulai Carbon Fiber Major Business
 - 2.26.3 Fulai Carbon Fiber PAN-Based Carbon Fiber Felt Product and Services
 - 2.26.4 Fulai Carbon Fiber PAN-Based Carbon Fiber Felt Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.26.5 Fulai Carbon Fiber Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: PAN-BASED CARBON FIBER FELT BY MANUFACTURER

- 3.1 Global PAN-Based Carbon Fiber Felt Sales Quantity by Manufacturer (2021-2026)
- 3.2 Global PAN-Based Carbon Fiber Felt Revenue by Manufacturer (2021-2026)
- 3.3 Global PAN-Based Carbon Fiber Felt Average Price by Manufacturer (2021-2026)
- 3.4 Market Share Analysis (2025)
 - 3.4.1 Producer Shipments of PAN-Based Carbon Fiber Felt by Manufacturer Revenue (\$MM) and Market Share (%): 2025
 - 3.4.2 Top 3 PAN-Based Carbon Fiber Felt Manufacturer Market Share in 2025
 - 3.4.3 Top 6 PAN-Based Carbon Fiber Felt Manufacturer Market Share in 2025
- 3.5 PAN-Based Carbon Fiber Felt Market: Overall Company Footprint Analysis
 - 3.5.1 PAN-Based Carbon Fiber Felt Market: Region Footprint
 - 3.5.2 PAN-Based Carbon Fiber Felt Market: Company Product Type Footprint
 - 3.5.3 PAN-Based Carbon Fiber Felt Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry

3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global PAN-Based Carbon Fiber Felt Market Size by Region

4.1.1 Global PAN-Based Carbon Fiber Felt Sales Quantity by Region (2021-2032)

4.1.2 Global PAN-Based Carbon Fiber Felt Consumption Value by Region (2021-2032)

4.1.3 Global PAN-Based Carbon Fiber Felt Average Price by Region (2021-2032)

4.2 North America PAN-Based Carbon Fiber Felt Consumption Value (2021-2032)

4.3 Europe PAN-Based Carbon Fiber Felt Consumption Value (2021-2032)

4.4 Asia-Pacific PAN-Based Carbon Fiber Felt Consumption Value (2021-2032)

4.5 South America PAN-Based Carbon Fiber Felt Consumption Value (2021-2032)

4.6 Middle East & Africa PAN-Based Carbon Fiber Felt Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

5.1 Global PAN-Based Carbon Fiber Felt Sales Quantity by Type (2021-2032)

5.2 Global PAN-Based Carbon Fiber Felt Consumption Value by Type (2021-2032)

5.3 Global PAN-Based Carbon Fiber Felt Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

6.1 Global PAN-Based Carbon Fiber Felt Sales Quantity by Application (2021-2032)

6.2 Global PAN-Based Carbon Fiber Felt Consumption Value by Application (2021-2032)

6.3 Global PAN-Based Carbon Fiber Felt Average Price by Application (2021-2032)

7 NORTH AMERICA

7.1 North America PAN-Based Carbon Fiber Felt Sales Quantity by Type (2021-2032)

7.2 North America PAN-Based Carbon Fiber Felt Sales Quantity by Application (2021-2032)

7.3 North America PAN-Based Carbon Fiber Felt Market Size by Country

7.3.1 North America PAN-Based Carbon Fiber Felt Sales Quantity by Country (2021-2032)

7.3.2 North America PAN-Based Carbon Fiber Felt Consumption Value by Country (2021-2032)

7.3.3 United States Market Size and Forecast (2021-2032)

7.3.4 Canada Market Size and Forecast (2021-2032)

7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

8.1 Europe PAN-Based Carbon Fiber Felt Sales Quantity by Type (2021-2032)

8.2 Europe PAN-Based Carbon Fiber Felt Sales Quantity by Application (2021-2032)

8.3 Europe PAN-Based Carbon Fiber Felt Market Size by Country

8.3.1 Europe PAN-Based Carbon Fiber Felt Sales Quantity by Country (2021-2032)

8.3.2 Europe PAN-Based Carbon Fiber Felt Consumption Value by Country
(2021-2032)

8.3.3 Germany Market Size and Forecast (2021-2032)

8.3.4 France Market Size and Forecast (2021-2032)

8.3.5 United Kingdom Market Size and Forecast (2021-2032)

8.3.6 Russia Market Size and Forecast (2021-2032)

8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

9.1 Asia-Pacific PAN-Based Carbon Fiber Felt Sales Quantity by Type (2021-2032)

9.2 Asia-Pacific PAN-Based Carbon Fiber Felt Sales Quantity by Application
(2021-2032)

9.3 Asia-Pacific PAN-Based Carbon Fiber Felt Market Size by Region

9.3.1 Asia-Pacific PAN-Based Carbon Fiber Felt Sales Quantity by Region
(2021-2032)

9.3.2 Asia-Pacific PAN-Based Carbon Fiber Felt Consumption Value by Region
(2021-2032)

9.3.3 China Market Size and Forecast (2021-2032)

9.3.4 Japan Market Size and Forecast (2021-2032)

9.3.5 South Korea Market Size and Forecast (2021-2032)

9.3.6 India Market Size and Forecast (2021-2032)

9.3.7 Southeast Asia Market Size and Forecast (2021-2032)

9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

10.1 South America PAN-Based Carbon Fiber Felt Sales Quantity by Type (2021-2032)

10.2 South America PAN-Based Carbon Fiber Felt Sales Quantity by Application
(2021-2032)

10.3 South America PAN-Based Carbon Fiber Felt Market Size by Country

10.3.1 South America PAN-Based Carbon Fiber Felt Sales Quantity by Country (2021-2032)

10.3.2 South America PAN-Based Carbon Fiber Felt Consumption Value by Country (2021-2032)

10.3.3 Brazil Market Size and Forecast (2021-2032)

10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa PAN-Based Carbon Fiber Felt Sales Quantity by Type (2021-2032)

11.2 Middle East & Africa PAN-Based Carbon Fiber Felt Sales Quantity by Application (2021-2032)

11.3 Middle East & Africa PAN-Based Carbon Fiber Felt Market Size by Country

11.3.1 Middle East & Africa PAN-Based Carbon Fiber Felt Sales Quantity by Country (2021-2032)

11.3.2 Middle East & Africa PAN-Based Carbon Fiber Felt Consumption Value by Country (2021-2032)

11.3.3 Turkey Market Size and Forecast (2021-2032)

11.3.4 Egypt Market Size and Forecast (2021-2032)

11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)

11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

12.1 PAN-Based Carbon Fiber Felt Market Drivers

12.2 PAN-Based Carbon Fiber Felt Market Restraints

12.3 PAN-Based Carbon Fiber Felt Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of PAN-Based Carbon Fiber Felt and Key Manufacturers

13.2 Manufacturing Costs Percentage of PAN-Based Carbon Fiber Felt

13.3 PAN-Based Carbon Fiber Felt Production Process

13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 PAN-Based Carbon Fiber Felt Typical Distributors

14.3 PAN-Based Carbon Fiber Felt Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global PAN-Based Carbon Fiber Felt Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global PAN-Based Carbon Fiber Felt Consumption Value by Operating Temperature, (USD Million), 2021 & 2025 & 2032

Table 3. Global PAN-Based Carbon Fiber Felt Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 4. SGL Carbon Basic Information, Manufacturing Base and Competitors

Table 5. SGL Carbon Major Business

Table 6. SGL Carbon PAN-Based Carbon Fiber Felt Product and Services

Table 7. SGL Carbon PAN-Based Carbon Fiber Felt Sales Quantity (Kilotons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 8. SGL Carbon Recent Developments/Updates

Table 9. CGT Carbon Basic Information, Manufacturing Base and Competitors

Table 10. CGT Carbon Major Business

Table 11. CGT Carbon PAN-Based Carbon Fiber Felt Product and Services

Table 12. CGT Carbon PAN-Based Carbon Fiber Felt Sales Quantity (Kilotons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 13. CGT Carbon Recent Developments/Updates

Table 14. Morgan Advanced Materials Basic Information, Manufacturing Base and Competitors

Table 15. Morgan Advanced Materials Major Business

Table 16. Morgan Advanced Materials PAN-Based Carbon Fiber Felt Product and Services

Table 17. Morgan Advanced Materials PAN-Based Carbon Fiber Felt Sales Quantity (Kilotons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 18. Morgan Advanced Materials Recent Developments/Updates

Table 19. Mersen Basic Information, Manufacturing Base and Competitors

Table 20. Mersen Major Business

Table 21. Mersen PAN-Based Carbon Fiber Felt Product and Services

Table 22. Mersen PAN-Based Carbon Fiber Felt Sales Quantity (Kilotons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 23. Mersen Recent Developments/Updates

Table 24. AvCarb Basic Information, Manufacturing Base and Competitors

Table 25. AvCarb Major Business

Table 26. AvCarb PAN-Based Carbon Fiber Felt Product and Services

Table 27. AvCarb PAN-Based Carbon Fiber Felt Sales Quantity (Kilotons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 28. AvCarb Recent Developments/Updates

Table 29. HPMS Graphite Basic Information, Manufacturing Base and Competitors

Table 30. HPMS Graphite Major Business

Table 31. HPMS Graphite PAN-Based Carbon Fiber Felt Product and Services

Table 32. HPMS Graphite PAN-Based Carbon Fiber Felt Sales Quantity (Kilotons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 33. HPMS Graphite Recent Developments/Updates

Table 34. Noboran Ltd Basic Information, Manufacturing Base and Competitors

Table 35. Noboran Ltd Major Business

Table 36. Noboran Ltd PAN-Based Carbon Fiber Felt Product and Services

Table 37. Noboran Ltd PAN-Based Carbon Fiber Felt Sales Quantity (Kilotons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 38. Noboran Ltd Recent Developments/Updates

Table 39. Nippon Carbon Basic Information, Manufacturing Base and Competitors

Table 40. Nippon Carbon Major Business

Table 41. Nippon Carbon PAN-Based Carbon Fiber Felt Product and Services

Table 42. Nippon Carbon PAN-Based Carbon Fiber Felt Sales Quantity (Kilotons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 43. Nippon Carbon Recent Developments/Updates

Table 44. Toray Basic Information, Manufacturing Base and Competitors

Table 45. Toray Major Business

Table 46. Toray PAN-Based Carbon Fiber Felt Product and Services

Table 47. Toray PAN-Based Carbon Fiber Felt Sales Quantity (Kilotons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 48. Toray Recent Developments/Updates

Table 49. Mitsubishi Chemical Basic Information, Manufacturing Base and Competitors

Table 50. Mitsubishi Chemical Major Business

Table 51. Mitsubishi Chemical PAN-Based Carbon Fiber Felt Product and Services

Table 52. Mitsubishi Chemical PAN-Based Carbon Fiber Felt Sales Quantity (Kilotons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 53. Mitsubishi Chemical Recent Developments/Updates

Table 54. Teijin Limited Basic Information, Manufacturing Base and Competitors

Table 55. Teijin Limited Major Business

Table 56. Teijin Limited PAN-Based Carbon Fiber Felt Product and Services

Table 57. Teijin Limited PAN-Based Carbon Fiber Felt Sales Quantity (Kilotons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 58. Teijin Limited Recent Developments/Updates

Table 59. Kureha Corporation Basic Information, Manufacturing Base and Competitors

Table 60. Kureha Corporation Major Business

Table 61. Kureha Corporation PAN-Based Carbon Fiber Felt Product and Services

Table 62. Kureha Corporation PAN-Based Carbon Fiber Felt Sales Quantity (Kilotons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 63. Kureha Corporation Recent Developments/Updates

Table 64. AKSA Basic Information, Manufacturing Base and Competitors

Table 65. AKSA Major Business

Table 66. AKSA PAN-Based Carbon Fiber Felt Product and Services

Table 67. AKSA PAN-Based Carbon Fiber Felt Sales Quantity (Kilotons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 68. AKSA Recent Developments/Updates

Table 69. Taekwang Basic Information, Manufacturing Base and Competitors

Table 70. Taekwang Major Business

Table 71. Taekwang PAN-Based Carbon Fiber Felt Product and Services

Table 72. Taekwang PAN-Based Carbon Fiber Felt Sales Quantity (Kilotons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 73. Taekwang Recent Developments/Updates

Table 74. Beijing Great Wall Basic Information, Manufacturing Base and Competitors

Table 75. Beijing Great Wall Major Business

Table 76. Beijing Great Wall PAN-Based Carbon Fiber Felt Product and Services

Table 77. Beijing Great Wall PAN-Based Carbon Fiber Felt Sales Quantity (Kilotons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 78. Beijing Great Wall Recent Developments/Updates

Table 79. Hongchang New Materials Basic Information, Manufacturing Base and Competitors

Table 80. Hongchang New Materials Major Business

Table 81. Hongchang New Materials PAN-Based Carbon Fiber Felt Product and Services

Table 82. Hongchang New Materials PAN-Based Carbon Fiber Felt Sales Quantity

(Kilotons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 83. Hongchang New Materials Recent Developments/Updates

Table 84. Lingken New Material Basic Information, Manufacturing Base and Competitors

Table 85. Lingken New Material Major Business

Table 86. Lingken New Material PAN-Based Carbon Fiber Felt Product and Services

Table 87. Lingken New Material PAN-Based Carbon Fiber Felt Sales Quantity (Kilotons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 88. Lingken New Material Recent Developments/Updates

Table 89. Mige New Material Basic Information, Manufacturing Base and Competitors

Table 90. Mige New Material Major Business

Table 91. Mige New Material PAN-Based Carbon Fiber Felt Product and Services

Table 92. Mige New Material PAN-Based Carbon Fiber Felt Sales Quantity (Kilotons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 93. Mige New Material Recent Developments/Updates

Table 94. Junrui Carbon Fiber Materials Basic Information, Manufacturing Base and Competitors

Table 95. Junrui Carbon Fiber Materials Major Business

Table 96. Junrui Carbon Fiber Materials PAN-Based Carbon Fiber Felt Product and Services

Table 97. Junrui Carbon Fiber Materials PAN-Based Carbon Fiber Felt Sales Quantity (Kilotons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 98. Junrui Carbon Fiber Materials Recent Developments/Updates

Table 99. BOST Carbon Materials Basic Information, Manufacturing Base and Competitors

Table 100. BOST Carbon Materials Major Business

Table 101. BOST Carbon Materials PAN-Based Carbon Fiber Felt Product and Services

Table 102. BOST Carbon Materials PAN-Based Carbon Fiber Felt Sales Quantity (Kilotons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. BOST Carbon Materials Recent Developments/Updates

Table 104. Sinotek Materials Basic Information, Manufacturing Base and Competitors

Table 105. Sinotek Materials Major Business

Table 106. Sinotek Materials PAN-Based Carbon Fiber Felt Product and Services

Table 107. Sinotek Materials PAN-Based Carbon Fiber Felt Sales Quantity (Kilotons),

Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 108. Sinotek Materials Recent Developments/Updates

Table 109. Haoshi Carbon Fiber Basic Information, Manufacturing Base and Competitors

Table 110. Haoshi Carbon Fiber Major Business

Table 111. Haoshi Carbon Fiber PAN-Based Carbon Fiber Felt Product and Services

Table 112. Haoshi Carbon Fiber PAN-Based Carbon Fiber Felt Sales Quantity (Kilotons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 113. Haoshi Carbon Fiber Recent Developments/Updates

Table 114. Weiji Carbon-tech Basic Information, Manufacturing Base and Competitors

Table 115. Weiji Carbon-tech Major Business

Table 116. Weiji Carbon-tech PAN-Based Carbon Fiber Felt Product and Services

Table 117. Weiji Carbon-tech PAN-Based Carbon Fiber Felt Sales Quantity (Kilotons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 118. Weiji Carbon-tech Recent Developments/Updates

Table 119. KBC Carbon Basic Information, Manufacturing Base and Competitors

Table 120. KBC Carbon Major Business

Table 121. KBC Carbon PAN-Based Carbon Fiber Felt Product and Services

Table 122. KBC Carbon PAN-Based Carbon Fiber Felt Sales Quantity (Kilotons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 123. KBC Carbon Recent Developments/Updates

Table 124. Runsheng Graphite Felting Basic Information, Manufacturing Base and Competitors

Table 125. Runsheng Graphite Felting Major Business

Table 126. Runsheng Graphite Felting PAN-Based Carbon Fiber Felt Product and Services

Table 127. Runsheng Graphite Felting PAN-Based Carbon Fiber Felt Sales Quantity (Kilotons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 128. Runsheng Graphite Felting Recent Developments/Updates

Table 129. Fulai Carbon Fiber Basic Information, Manufacturing Base and Competitors

Table 130. Fulai Carbon Fiber Major Business

Table 131. Fulai Carbon Fiber PAN-Based Carbon Fiber Felt Product and Services

Table 132. Fulai Carbon Fiber PAN-Based Carbon Fiber Felt Sales Quantity (Kilotons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share

(2021-2026)

Table 133. Fulai Carbon Fiber Recent Developments/Updates

Table 134. Global PAN-Based Carbon Fiber Felt Sales Quantity by Manufacturer
(2021-2026) & (Kilotons)

Table 135. Global PAN-Based Carbon Fiber Felt Revenue by Manufacturer (2021-2026)
& (USD Million)

Table 136. Global PAN-Based Carbon Fiber Felt Average Price by Manufacturer
(2021-2026) & (US\$/kg)

Table 137. Market Position of Manufacturers in PAN-Based Carbon Fiber Felt, (Tier 1,
Tier 2, and Tier 3), Based on Revenue in 2025

Table 138. Head Office and PAN-Based Carbon Fiber Felt Production Site of Key
Manufacturer

Table 139. PAN-Based Carbon Fiber Felt Market: Company Product Type Footprint

Table 140. PAN-Based Carbon Fiber Felt Market: Company Product Application
Footprint

Table 141. PAN-Based Carbon Fiber Felt New Market Entrants and Barriers to Market
Entry

Table 142. PAN-Based Carbon Fiber Felt Mergers, Acquisition, Agreements, and
Collaborations

Table 143. Global PAN-Based Carbon Fiber Felt Consumption Value by Region
(2021-2025-2032) & (USD Million) & CAGR

Table 144. Global PAN-Based Carbon Fiber Felt Sales Quantity by Region (2021-2026)
& (Kilotons)

Table 145. Global PAN-Based Carbon Fiber Felt Sales Quantity by Region (2027-2032)
& (Kilotons)

Table 146. Global PAN-Based Carbon Fiber Felt Consumption Value by Region
(2021-2026) & (USD Million)

Table 147. Global PAN-Based Carbon Fiber Felt Consumption Value by Region
(2027-2032) & (USD Million)

Table 148. Global PAN-Based Carbon Fiber Felt Average Price by Region (2021-2026)
& (US\$/kg)

Table 149. Global PAN-Based Carbon Fiber Felt Average Price by Region (2027-2032)
& (US\$/kg)

Table 150. Global PAN-Based Carbon Fiber Felt Sales Quantity by Type (2021-2026) &
(Kilotons)

Table 151. Global PAN-Based Carbon Fiber Felt Sales Quantity by Type (2027-2032) &
(Kilotons)

Table 152. Global PAN-Based Carbon Fiber Felt Consumption Value by Type
(2021-2026) & (USD Million)

Table 153. Global PAN-Based Carbon Fiber Felt Consumption Value by Type (2027-2032) & (USD Million)

Table 154. Global PAN-Based Carbon Fiber Felt Average Price by Type (2021-2026) & (US\$/kg)

Table 155. Global PAN-Based Carbon Fiber Felt Average Price by Type (2027-2032) & (US\$/kg)

Table 156. Global PAN-Based Carbon Fiber Felt Sales Quantity by Application (2021-2026) & (Kilotons)

Table 157. Global PAN-Based Carbon Fiber Felt Sales Quantity by Application (2027-2032) & (Kilotons)

Table 158. Global PAN-Based Carbon Fiber Felt Consumption Value by Application (2021-2026) & (USD Million)

Table 159. Global PAN-Based Carbon Fiber Felt Consumption Value by Application (2027-2032) & (USD Million)

Table 160. Global PAN-Based Carbon Fiber Felt Average Price by Application (2021-2026) & (US\$/kg)

Table 161. Global PAN-Based Carbon Fiber Felt Average Price by Application (2027-2032) & (US\$/kg)

Table 162. North America PAN-Based Carbon Fiber Felt Sales Quantity by Type (2021-2026) & (Kilotons)

Table 163. North America PAN-Based Carbon Fiber Felt Sales Quantity by Type (2027-2032) & (Kilotons)

Table 164. North America PAN-Based Carbon Fiber Felt Sales Quantity by Application (2021-2026) & (Kilotons)

Table 165. North America PAN-Based Carbon Fiber Felt Sales Quantity by Application (2027-2032) & (Kilotons)

Table 166. North America PAN-Based Carbon Fiber Felt Sales Quantity by Country (2021-2026) & (Kilotons)

Table 167. North America PAN-Based Carbon Fiber Felt Sales Quantity by Country (2027-2032) & (Kilotons)

Table 168. North America PAN-Based Carbon Fiber Felt Consumption Value by Country (2021-2026) & (USD Million)

Table 169. North America PAN-Based Carbon Fiber Felt Consumption Value by Country (2027-2032) & (USD Million)

Table 170. Europe PAN-Based Carbon Fiber Felt Sales Quantity by Type (2021-2026) & (Kilotons)

Table 171. Europe PAN-Based Carbon Fiber Felt Sales Quantity by Type (2027-2032) & (Kilotons)

Table 172. Europe PAN-Based Carbon Fiber Felt Sales Quantity by Application

(2021-2026) & (Kilotons)

Table 173. Europe PAN-Based Carbon Fiber Felt Sales Quantity by Application

(2027-2032) & (Kilotons)

Table 174. Europe PAN-Based Carbon Fiber Felt Sales Quantity by Country

(2021-2026) & (Kilotons)

Table 175. Europe PAN-Based Carbon Fiber Felt Sales Quantity by Country

(2027-2032) & (Kilotons)

Table 176. Europe PAN-Based Carbon Fiber Felt Consumption Value by Country

(2021-2026) & (USD Million)

Table 177. Europe PAN-Based Carbon Fiber Felt Consumption Value by Country

(2027-2032) & (USD Million)

Table 178. Asia-Pacific PAN-Based Carbon Fiber Felt Sales Quantity by Type

(2021-2026) & (Kilotons)

Table 179. Asia-Pacific PAN-Based Carbon Fiber Felt Sales Quantity by Type

(2027-2032) & (Kilotons)

Table 180. Asia-Pacific PAN-Based Carbon Fiber Felt Sales Quantity by Application

(2021-2026) & (Kilotons)

Table 181. Asia-Pacific PAN-Based Carbon Fiber Felt Sales Quantity by Application

(2027-2032) & (Kilotons)

Table 182. Asia-Pacific PAN-Based Carbon Fiber Felt Sales Quantity by Region

(2021-2026) & (Kilotons)

Table 183. Asia-Pacific PAN-Based Carbon Fiber Felt Sales Quantity by Region

(2027-2032) & (Kilotons)

Table 184. Asia-Pacific PAN-Based Carbon Fiber Felt Consumption Value by Region

(2021-2026) & (USD Million)

Table 185. Asia-Pacific PAN-Based Carbon Fiber Felt Consumption Value by Region

(2027-2032) & (USD Million)

Table 186. South America PAN-Based Carbon Fiber Felt Sales Quantity by Type

(2021-2026) & (Kilotons)

Table 187. South America PAN-Based Carbon Fiber Felt Sales Quantity by Type

(2027-2032) & (Kilotons)

Table 188. South America PAN-Based Carbon Fiber Felt Sales Quantity by Application

(2021-2026) & (Kilotons)

Table 189. South America PAN-Based Carbon Fiber Felt Sales Quantity by Application

(2027-2032) & (Kilotons)

Table 190. South America PAN-Based Carbon Fiber Felt Sales Quantity by Country

(2021-2026) & (Kilotons)

Table 191. South America PAN-Based Carbon Fiber Felt Sales Quantity by Country

(2027-2032) & (Kilotons)

Table 192. South America PAN-Based Carbon Fiber Felt Consumption Value by Country (2021-2026) & (USD Million)

Table 193. South America PAN-Based Carbon Fiber Felt Consumption Value by Country (2027-2032) & (USD Million)

Table 194. Middle East & Africa PAN-Based Carbon Fiber Felt Sales Quantity by Type (2021-2026) & (Kilotons)

Table 195. Middle East & Africa PAN-Based Carbon Fiber Felt Sales Quantity by Type (2027-2032) & (Kilotons)

Table 196. Middle East & Africa PAN-Based Carbon Fiber Felt Sales Quantity by Application (2021-2026) & (Kilotons)

Table 197. Middle East & Africa PAN-Based Carbon Fiber Felt Sales Quantity by Application (2027-2032) & (Kilotons)

Table 198. Middle East & Africa PAN-Based Carbon Fiber Felt Sales Quantity by Country (2021-2026) & (Kilotons)

Table 199. Middle East & Africa PAN-Based Carbon Fiber Felt Sales Quantity by Country (2027-2032) & (Kilotons)

Table 200. Middle East & Africa PAN-Based Carbon Fiber Felt Consumption Value by Country (2021-2026) & (USD Million)

Table 201. Middle East & Africa PAN-Based Carbon Fiber Felt Consumption Value by Country (2027-2032) & (USD Million)

Table 202. PAN-Based Carbon Fiber Felt Raw Material

Table 203. Key Manufacturers of PAN-Based Carbon Fiber Felt Raw Materials

Table 204. PAN-Based Carbon Fiber Felt Typical Distributors

Table 205. PAN-Based Carbon Fiber Felt Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. PAN-Based Carbon Fiber Felt Picture

Figure 2. Global PAN-Based Carbon Fiber Felt Revenue by Type, (USD Million), 2021 & 2025 & 2032

Figure 3. Global PAN-Based Carbon Fiber Felt Revenue Market Share by Type in 2025

Figure 4. Carbon Felt Examples

Figure 5. Graphite Felt Examples

Figure 6. Global PAN-Based Carbon Fiber Felt Revenue by Operating Temperature, (USD Million), 2021 & 2025 & 2032

Figure 7. Global PAN-Based Carbon Fiber Felt Revenue Market Share by Operating Temperature in 2025

Figure 8. 1000 ? 2200? Examples

Figure 9. 2000 ? 3000? Examples

Figure 10. Others Examples

Figure 11. Global PAN-Based Carbon Fiber Felt Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 12. Global PAN-Based Carbon Fiber Felt Revenue Market Share by Application in 2025

Figure 13. Automotive Examples

Figure 14. Aerospace Examples

Figure 15. Wind Power Examples

Figure 16. Architecture Examples

Figure 17. Photovoltaics Examples

Figure 18. Semiconductors Examples

Figure 19. Others Examples

Figure 20. Global PAN-Based Carbon Fiber Felt Consumption Value, (USD Million): 2021 & 2025 & 2032

Figure 21. Global PAN-Based Carbon Fiber Felt Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 22. Global PAN-Based Carbon Fiber Felt Sales Quantity (2021-2032) & (Kilotons)

Figure 23. Global PAN-Based Carbon Fiber Felt Price (2021-2032) & (US\$/kg)

Figure 24. Global PAN-Based Carbon Fiber Felt Sales Quantity Market Share by Manufacturer in 2025

Figure 25. Global PAN-Based Carbon Fiber Felt Revenue Market Share by Manufacturer in 2025

Figure 26. Producer Shipments of PAN-Based Carbon Fiber Felt by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 27. Top 3 PAN-Based Carbon Fiber Felt Manufacturer (Revenue) Market Share in 2025

Figure 28. Top 6 PAN-Based Carbon Fiber Felt Manufacturer (Revenue) Market Share in 2025

Figure 29. Global PAN-Based Carbon Fiber Felt Sales Quantity Market Share by Region (2021-2032)

Figure 30. Global PAN-Based Carbon Fiber Felt Consumption Value Market Share by Region (2021-2032)

Figure 31. North America PAN-Based Carbon Fiber Felt Consumption Value (2021-2032) & (USD Million)

Figure 32. Europe PAN-Based Carbon Fiber Felt Consumption Value (2021-2032) & (USD Million)

Figure 33. Asia-Pacific PAN-Based Carbon Fiber Felt Consumption Value (2021-2032) & (USD Million)

Figure 34. South America PAN-Based Carbon Fiber Felt Consumption Value (2021-2032) & (USD Million)

Figure 35. Middle East & Africa PAN-Based Carbon Fiber Felt Consumption Value (2021-2032) & (USD Million)

Figure 36. Global PAN-Based Carbon Fiber Felt Sales Quantity Market Share by Type (2021-2032)

Figure 37. Global PAN-Based Carbon Fiber Felt Consumption Value Market Share by Type (2021-2032)

Figure 38. Global PAN-Based Carbon Fiber Felt Average Price by Type (2021-2032) & (US\$/kg)

Figure 39. Global PAN-Based Carbon Fiber Felt Sales Quantity Market Share by Application (2021-2032)

Figure 40. Global PAN-Based Carbon Fiber Felt Revenue Market Share by Application (2021-2032)

Figure 41. Global PAN-Based Carbon Fiber Felt Average Price by Application (2021-2032) & (US\$/kg)

Figure 42. North America PAN-Based Carbon Fiber Felt Sales Quantity Market Share by Type (2021-2032)

Figure 43. North America PAN-Based Carbon Fiber Felt Sales Quantity Market Share by Application (2021-2032)

Figure 44. North America PAN-Based Carbon Fiber Felt Sales Quantity Market Share by Country (2021-2032)

Figure 45. North America PAN-Based Carbon Fiber Felt Consumption Value Market

Share by Country (2021-2032)

Figure 46. United States PAN-Based Carbon Fiber Felt Consumption Value (2021-2032) & (USD Million)

Figure 47. Canada PAN-Based Carbon Fiber Felt Consumption Value (2021-2032) & (USD Million)

Figure 48. Mexico PAN-Based Carbon Fiber Felt Consumption Value (2021-2032) & (USD Million)

Figure 49. Europe PAN-Based Carbon Fiber Felt Sales Quantity Market Share by Type (2021-2032)

Figure 50. Europe PAN-Based Carbon Fiber Felt Sales Quantity Market Share by Application (2021-2032)

Figure 51. Europe PAN-Based Carbon Fiber Felt Sales Quantity Market Share by Country (2021-2032)

Figure 52. Europe PAN-Based Carbon Fiber Felt Consumption Value Market Share by Country (2021-2032)

Figure 53. Germany PAN-Based Carbon Fiber Felt Consumption Value (2021-2032) & (USD Million)

Figure 54. France PAN-Based Carbon Fiber Felt Consumption Value (2021-2032) & (USD Million)

Figure 55. United Kingdom PAN-Based Carbon Fiber Felt Consumption Value (2021-2032) & (USD Million)

Figure 56. Russia PAN-Based Carbon Fiber Felt Consumption Value (2021-2032) & (USD Million)

Figure 57. Italy PAN-Based Carbon Fiber Felt Consumption Value (2021-2032) & (USD Million)

Figure 58. Asia-Pacific PAN-Based Carbon Fiber Felt Sales Quantity Market Share by Type (2021-2032)

Figure 59. Asia-Pacific PAN-Based Carbon Fiber Felt Sales Quantity Market Share by Application (2021-2032)

Figure 60. Asia-Pacific PAN-Based Carbon Fiber Felt Sales Quantity Market Share by Region (2021-2032)

Figure 61. Asia-Pacific PAN-Based Carbon Fiber Felt Consumption Value Market Share by Region (2021-2032)

Figure 62. China PAN-Based Carbon Fiber Felt Consumption Value (2021-2032) & (USD Million)

Figure 63. Japan PAN-Based Carbon Fiber Felt Consumption Value (2021-2032) & (USD Million)

Figure 64. South Korea PAN-Based Carbon Fiber Felt Consumption Value (2021-2032) & (USD Million)

Figure 65. India PAN-Based Carbon Fiber Felt Consumption Value (2021-2032) & (USD Million)

Figure 66. Southeast Asia PAN-Based Carbon Fiber Felt Consumption Value (2021-2032) & (USD Million)

Figure 67. Australia PAN-Based Carbon Fiber Felt Consumption Value (2021-2032) & (USD Million)

Figure 68. South America PAN-Based Carbon Fiber Felt Sales Quantity Market Share by Type (2021-2032)

Figure 69. South America PAN-Based Carbon Fiber Felt Sales Quantity Market Share by Application (2021-2032)

Figure 70. South America PAN-Based Carbon Fiber Felt Sales Quantity Market Share by Country (2021-2032)

Figure 71. South America PAN-Based Carbon Fiber Felt Consumption Value Market Share by Country (2021-2032)

Figure 72. Brazil PAN-Based Carbon Fiber Felt Consumption Value (2021-2032) & (USD Million)

Figure 73. Argentina PAN-Based Carbon Fiber Felt Consumption Value (2021-2032) & (USD Million)

Figure 74. Middle East & Africa PAN-Based Carbon Fiber Felt Sales Quantity Market Share by Type (2021-2032)

Figure 75. Middle East & Africa PAN-Based Carbon Fiber Felt Sales Quantity Market Share by Application (2021-2032)

Figure 76. Middle East & Africa PAN-Based Carbon Fiber Felt Sales Quantity Market Share by Country (2021-2032)

Figure 77. Middle East & Africa PAN-Based Carbon Fiber Felt Consumption Value Market Share by Country (2021-2032)

Figure 78. Turkey PAN-Based Carbon Fiber Felt Consumption Value (2021-2032) & (USD Million)

Figure 79. Egypt PAN-Based Carbon Fiber Felt Consumption Value (2021-2032) & (USD Million)

Figure 80. Saudi Arabia PAN-Based Carbon Fiber Felt Consumption Value (2021-2032) & (USD Million)

Figure 81. South Africa PAN-Based Carbon Fiber Felt Consumption Value (2021-2032) & (USD Million)

Figure 82. PAN-Based Carbon Fiber Felt Market Drivers

Figure 83. PAN-Based Carbon Fiber Felt Market Restraints

Figure 84. PAN-Based Carbon Fiber Felt Market Trends

Figure 85. Porters Five Forces Analysis

Figure 86. Manufacturing Cost Structure Analysis of PAN-Based Carbon Fiber Felt in

2025

Figure 87. Manufacturing Process Analysis of PAN-Based Carbon Fiber Felt

Figure 88. PAN-Based Carbon Fiber Felt Industrial Chain

Figure 89. Sales Channel: Direct to End-User vs Distributors

Figure 90. Direct Channel Pros & Cons

Figure 91. Indirect Channel Pros & Cons

Figure 92. Methodology

Figure 93. Research Process and Data Source

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