

Global Graphite Felt Electrode 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 Graphite Felt Electrode market size was valued at US\$ 507 million in 2025 and is forecast to a readjusted size of US\$ 1224 million by 2032 with a CAGR of 13.4% during review period.

Graphite felt electrode is a high-surface-area, porous carbon electrode material manufactured from polyacrylonitrile (PAN) or rayon precursor fibers that are stabilized, carbonized (1,000-1,500°C), and graphitized (2,500-3,000°C) to create a conductive, chemically stable, and corrosion-resistant felt structure. It is widely used in vanadium redox flow batteries (VRFBs), zinc-bromine flow batteries, fuel cells, and electrochemical reactors due to its excellent conductivity, large active surface area, and good electrolyte wettability (often enhanced via thermal or chemical surface activation). The supply chain begins upstream with PAN or rayon fiber producers and petroleum/coal-based carbon feedstocks, followed by midstream carbonization and graphitization processors that convert precursor fibers into graphite felt rolls or sheets; downstream stages include cutting, surface treatment, quality grading, and integration into battery stacks or electrochemical systems by flow-battery OEMs and energy storage system integrators. The industry is capital-intensive due to high-temperature furnaces, and performance differentiation typically depends on fiber purity, graphitization level, pore structure control, and surface activation technology. In 2025, global Graphite Felt Electrode output was about 34,000 tons, with 48,000 tons of capacity. Prices range from USD 9,000 - 22,000 per ton, with roughly 26% gross margin.

This report is a detailed and comprehensive analysis for global Graphite Felt Electrode 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 Graphite Felt Electrode market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Graphite Felt Electrode market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Graphite Felt Electrode market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Graphite Felt Electrode market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), 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 Graphite Felt Electrode
- 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 Graphite Felt Electrode 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 (Germany), Morgan Advanced Materials (UK), Tokai Carbon (Japan), Nippon Carbon (Japan), Kureha Corporation (Japan), Toyo Tanso (Japan), IBIDEN (Japan), SEC Carbon (Japan), Jilin

Carbon (China), Fangda Carbon New Material (China), etc.

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

Market Segmentation

Graphite Felt Electrode 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 Graphite Felt

Rayon-Based Graphite Felt

Pitch-Based Graphite Felt

Market segment by Surface Treatment

Untreated Felt

Thermally Activated Felt

Chemically Activated Felt

Catalyst-Coated Felt

Market segment by Application

Energy Storage System

Industrial Equipment

Aerospace System

Others

Major players covered

SGL Carbon (Germany)

Morgan Advanced Materials (UK)

Tokai Carbon (Japan)

Nippon Carbon (Japan)

Kureha Corporation (Japan)

Toyo Tanso (Japan)

IBIDEN (Japan)

SEC Carbon (Japan)

Jilin Carbon (China)

Fangda Carbon New Material (China)

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 Graphite Felt Electrode product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Graphite Felt Electrode, with price, sales quantity, revenue, and global market share of Graphite Felt Electrode from 2021 to 2026.

Chapter 3, the Graphite Felt Electrode competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Graphite Felt Electrode 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 Graphite Felt Electrode 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 Graphite Felt Electrode.

Chapter 14 and 15, to describe Graphite Felt Electrode sales channel, distributors, customers, research findings and conclusion.

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