

Global Graphite Felt Electrode Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Graphite Felt Electrode market size is expected to reach \$ 1224 million by 2032, rising at a market growth of 13.4% CAGR during the forecast period (2026-2032).

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 studies the global Graphite Felt Electrode production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Graphite

Felt Electrode 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 Graphite Felt Electrode that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Graphite Felt Electrode total production and demand, 2021-2032, (Tons)

Global Graphite Felt Electrode total production value, 2021-2032, (USD Million)

Global Graphite Felt Electrode production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Graphite Felt Electrode consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Graphite Felt Electrode domestic production, consumption, key domestic manufacturers and share

Global Graphite Felt Electrode production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Graphite Felt Electrode production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Graphite Felt Electrode production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Graphite Felt Electrode 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 (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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Graphite Felt Electrode market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) 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 Graphite Felt Electrode Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Graphite Felt Electrode Market, Segmentation by Type:

PAN-Based Graphite Felt

Rayon-Based Graphite Felt

Pitch-Based Graphite Felt

Global Graphite Felt Electrode Market, Segmentation by Surface Treatment:

Untreated Felt

Thermally Activated Felt

Chemically Activated Felt

Catalyst-Coated Felt

Global Graphite Felt Electrode Market, Segmentation by Application:

Energy Storage System

Industrial Equipment

Aerospace System

Others

Companies Profiled:

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)

Key Questions Answered:

1. How big is the global Graphite Felt Electrode market?
2. What is the demand of the global Graphite Felt Electrode market?
3. What is the year over year growth of the global Graphite Felt Electrode market?
4. What is the production and production value of the global Graphite Felt Electrode market?
5. Who are the key producers in the global Graphite Felt Electrode market?
6. What are the growth factors driving the market demand?

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