

Global Phenolic Resin-Graphite Brush Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Phenolic Resin-Graphite Brush market size is expected to reach \$ 344 million by 2032, rising at a market growth of 6.2% CAGR during the forecast period (2026-2032).

Phenolic resin graphite brushes are a type of conductive contact component for electric motors, manufactured using graphite powder, carbon materials, and phenolic resin binders as primary raw materials. Their production involves a series of processes including mixing, compression molding, curing, baking or heat treatment, machining, and lead wire assembly. By establishing sliding contact with the surfaces of commutators or slip rings, these brushes facilitate current conduction, commutation, and signal transmission; simultaneously, they exhibit inherent self-lubricating properties, wear resistance, heat resistance, and electrical contact stability. Widely utilized in DC motors, AC commutator motors, generators, traction motors, power tools, household appliances, industrial drive systems, and slip ring assemblies, these brushes are classified as carbon-graphite components for electromechanical equipment.

The upstream segment of the phenolic resin graphite brush industry chain primarily encompasses raw materials such as natural graphite, artificial graphite, carbon black, coke powder, phenolic resin binders, copper/metal powders, lead wires, terminals, springs, and molds. Among these, the quality of the graphite, the bonding performance of the resin, and the proportion of metal additives significantly influence the brush's electrical conductivity, wear resistance, commutation performance, and service life. The midstream segment involves processes such as material mixing, compression molding, curing, baking or heat treatment, impregnation, machining, lead wire riveting/welding, and performance testing, resulting in graphite brush products characterized by varying levels of resistivity, hardness, density, friction coefficient, and wear resistance. The

downstream segment consists of end-use applications, predominantly in DC motors, AC commutator motors, generators, traction motors, power tools, household appliances, industrial drive systems, wind power slip rings, and rail transit motors. The gross profit margin for this sector stands at approximately 43%.

In 2025, the average unit price for phenolic resin graphite brushes is projected to be \$10, with a sales volume of 22.1 million units and a total production capacity of 32 million units.

Phenolic resin-graphite brushes represent a mature category of electromechanical consumables that continues to enjoy stable demand. Growth in this sector is driven primarily by industrial motors, generators, rail transit systems, wind power slip rings, power tools, and the maintenance and replacement needs of existing equipment. Compared to standard carbon brushes, phenolic resin-graphite brushes offer superior moldability, mechanical strength, wear resistance, and electrical contact stability, making them well-suited for applications involving low-to-moderate speeds, moderate current densities, and complex commutation conditions. However, the overall market for these brushes remains significantly susceptible to displacement by brushless motors, price competition from standard carbon brushes, and fluctuations in the cost of graphite and resin raw materials. Future opportunities within this industry will not lie in low-end, generic small carbon brushes, but rather in high-reliability, customized applications such as industrial motors, traction motors, wind power systems, mining and oilfield equipment, and slip ring systems. Consequently, the focal point of corporate competition will shift toward expertise in material formulation, wear life, commutation performance, low-spark and low-noise operation, batch-to-batch consistency, and customer certification capabilities.

This report studies the global Phenolic Resin-Graphite Brush production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Phenolic Resin-Graphite Brush 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 Phenolic Resin-Graphite Brush that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Phenolic Resin-Graphite Brush total production and demand, 2021-2032, (K Units)

Global Phenolic Resin-Graphite Brush total production value, 2021-2032, (USD Million)

Global Phenolic Resin-Graphite Brush production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Phenolic Resin-Graphite Brush consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Phenolic Resin-Graphite Brush domestic production, consumption, key domestic manufacturers and share

Global Phenolic Resin-Graphite Brush production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Phenolic Resin-Graphite Brush production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Phenolic Resin-Graphite Brush production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Phenolic Resin-Graphite Brush 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 Asein, Advance Carbon Products, Carbex, Carbotech, E-Carbon, Electrographite Carbon, Fuji Carbon Manufacturing, Helwig Carbon Products, Marrar Carbon Brushes Factory, Mega Carbon Products, 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 Phenolic Resin-Graphite Brush market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) 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 Phenolic Resin-Graphite Brush Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Phenolic Resin-Graphite Brush Market, Segmentation by Type:

Low-Resistivity Type (200 Ω m)

Global Phenolic Resin-Graphite Brush Market, Segmentation by Material:

Natural Graphite Type

Artificial Graphite Type

Global Phenolic Resin-Graphite Brush Market, Segmentation by Dimensions and Specifications:

Small Carbon Brushes

Medium Carbon Brushes

Large Carbon Brushes

Global Phenolic Resin-Graphite Brush Market, Segmentation by Application:

Home Appliances Industry

Power Tools Industry

Transportation and Auxiliary Power Equipment

Others

Companies Profiled:

Asein

Advance Carbon Products

Carbex

Carbotech

E-Carbon

Electrographite Carbon

Fuji Carbon Manufacturing

Helwig Carbon Products

Marrar Carbon Brushes Factory

Mega Carbon Products

Mersen

Morgan Advanced Materials

Morteng

Changsha Aobo Carbon

Nippon Carbon

Ohio Carbon Industries

Schunk Carbon Technology

Steinemann Technology AG

St. Marys Carbon

MEGAA

Key Questions Answered:

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

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