

Global Phenolic Resin-Graphite Brush Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G96ED6072A32EN.html>

Date: June 2026

Pages: 129

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

ID: G96ED6072A32EN

Abstracts

According to our (Global Info Research) latest study, the global Phenolic Resin-Graphite Brush market size was valued at US\$ 227 million in 2025 and is forecast to a readjusted size of US\$ 344 million by 2032 with a CAGR of 6.2% during review period.

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 is a detailed and comprehensive analysis for global Phenolic Resin-Graphite Brush 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 Phenolic Resin-Graphite Brush market size and forecasts, in consumption value

(\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Phenolic Resin-Graphite Brush market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Phenolic Resin-Graphite Brush market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Phenolic Resin-Graphite Brush market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 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 Phenolic Resin-Graphite Brush

- 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 Phenolic Resin-Graphite Brush 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 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.

Market Segmentation

Phenolic Resin-Graphite Brush 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

Low-Resistivity Type (200 ???m)

Market segment by Material

Natural Graphite Type

Artificial Graphite Type

Market segment by Dimensions and Specifications

Small Carbon Brushes

Medium Carbon Brushes

Large Carbon Brushes

Market segment by Application

Home Appliances Industry

Power Tools Industry

Transportation and Auxiliary Power Equipment

Others

Major players covered

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

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 Phenolic Resin-Graphite Brush product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Phenolic Resin-Graphite Brush, with price, sales quantity, revenue, and global market share of Phenolic Resin-Graphite Brush from 2021 to 2026.

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

Chapter 4, the Phenolic Resin-Graphite Brush 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 Phenolic Resin-Graphite Brush 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 Phenolic Resin-Graphite Brush.

Chapter 14 and 15, to describe Phenolic Resin-Graphite Brush sales channel, distributors, customers, research findings and conclusion.

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