

# **Carbon Material Phenolic Resin Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented by Type (Phenolic Resin, and Carbon Resins), By Application (Ceramics, Cement, Metal, Graphite), By Region and Competition, 2020-2030F**

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## **Abstracts**

The Global Carbon Material Phenolic Resin Market, valued at USD 846.79 Million in 2024, is projected to experience a CAGR of 3.55% to reach USD 1043.92 Million by 2030. Carbon material phenolic resins are advanced composite materials integrating carbon fibers with a phenolic resin matrix, offering superior thermal stability, mechanical strength, and chemical resistance, making them crucial for high-performance applications. The market's expansion is fundamentally driven by the escalating demand for lightweight and high-performance materials, particularly in the aerospace and automotive sectors, where these resins contribute to improved fuel efficiency and reduced emissions.

## **Key Market Drivers**

The Global Carbon Material Phenolic Resin Market experiences substantial impetus from expanding applications within the aerospace and defense industry. These sectors increasingly rely on advanced composites for their superior strength-to-weight ratios, thermal stability, and corrosion resistance, which are critical for enhancing aircraft performance, fuel efficiency, and overall system durability. Carbon material phenolic resins are particularly valued for their fire retardant properties and ability to withstand extreme conditions, making them indispensable in structural components, interiors, and specialized defense equipment.

## Key Market Challenges

The inherent volatility of raw material prices, particularly for petrochemical feedstocks such as phenol and formaldehyde, presents a substantial impediment to the growth of the Global Carbon Material Phenolic Resin Market. Fluctuations in these essential input costs directly lead to elevated production expenditures for manufacturers of carbon material phenolic resins. This instability makes it challenging for producers to maintain consistent pricing strategies, subsequently impacting overall market competitiveness and profitability margins.

## Key Market Trends

The Global Carbon Material Phenolic Resin Market is witnessing a significant shift towards bio-based and sustainable formulations, driven by environmental mandates and consumer demand. These resins, derived from renewable resources, reduce the carbon footprint and lessen petrochemical dependence. According to CEFIC's 2024 Facts & Figures report, EU27 chemical sales reached €655 billion in 2023, underscoring the vast market where sustainable options are gaining traction. Demonstrating this strategic direction, BASF invested in research and development for bio-based phenolic resins in June 2023. This trend fosters new chemistries and processes, enhancing market sustainability and attracting green-focused industries.

## Key Market Players

Shandong Yushiju Chemical Co., Ltd

DIC Corporation

Kolon Industries, Inc.

Sumitomo Bakelite Co., Ltd.

Hexcel Corporation

Georgia-Pacific Chemicals

KRATON Corporation

Nanjing Ningkang Chemical Co., Ltd

Bostik, Inc.

SI Group, Inc

### **Report Scope:**

In this report, the Global Carbon Material Phenolic Resin Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Carbon Material Phenolic Resin Market, By Type:

Phenolic Resin

Carbon Resins

Carbon Material Phenolic Resin Market, By Application:

Ceramics

Cement

Metal

Graphite

Carbon Material Phenolic Resin Market, By Region:

Asia Pacific

China

India

Japan

Australia

South Korea

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

## **Competitive Landscape**

Company Profiles: Detailed analysis of the major companies presents in the Global Carbon Material Phenolic Resin Market.

## **Available Customizations:**

Global Carbon Material Phenolic Resin Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

## **Company Information**

Detailed analysis and profiling of additional market players (up to five).

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