

Global Carbon Phenolic Composite Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Carbon Phenolic Composite market size is expected to reach \$ 3654 million by 2032, rising at a market growth of 7.4% CAGR during the forecast period (2026-2032).

Carbon phenolic composite is a high-temperature, ablative composite material made by impregnating carbon fiber or carbon fabric with a phenolic resin matrix, then curing and carbonizing it to achieve exceptional thermal resistance, low erosion rate, and structural integrity under extreme heat and mechanical stress; it is widely used in rocket nozzles, re-entry heat shields, aircraft brake components, and thermal protection systems where controlled ablation and char formation are critical. The supply chain starts upstream with PAN-based or pitch-based carbon fiber producers and phenolic resin manufacturers, followed by midstream fabric weaving, resin impregnation (prepreg or wet lay-up), molding (compression, autoclave, or filament winding), and high-temperature curing/carbonization; downstream players include precision machining, surface treatment, and system integrators supplying aerospace, defense, space launch, and high-performance industrial end users, with qualification standards (aerospace/defense specs) and long validation cycles acting as major barriers to entry. In 2025, global Carbon Phenolic Composite output was about 110,000 tons, backed by an installed capacity of roughly 130,000 tons per year, with prices ranging from USD 18,000 to 29,000 per ton and industry gross margins of approximately 38%.

This report studies the global Carbon Phenolic Composite production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Carbon Phenolic Composite total production and demand, 2021-2032, (Tons)

Global Carbon Phenolic Composite total production value, 2021-2032, (USD Million)

Global Carbon Phenolic Composite production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Carbon Phenolic Composite consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Carbon Phenolic Composite domestic production, consumption, key domestic manufacturers and share

Global Carbon Phenolic Composite production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Carbon Phenolic Composite production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Carbon Phenolic Composite production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Carbon Phenolic Composite 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 Hexcel (USA), Toray Industries (Japan), SGL Carbon (Germany), Laiwu Runda New Material (China), Hexion (USA), Sumitomo Bakelite (Japan), DIC Corporation (Japan), Mitsui Chemicals (Japan), BASF (Germany), SI Group (USA), 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 Carbon Phenolic Composite 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 Carbon Phenolic Composite Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Carbon Phenolic Composite Market, Segmentation by Type:

Resol Phenolic Type

Novolac Phenolic Type

Global Carbon Phenolic Composite Market, Segmentation by Density:

Low Density (0.9–1.3 g/cm³)

Medium Density (1.4–1.6 g/cm³)

High Density (>1.7 g/cm³)

Global Carbon Phenolic Composite Market, Segmentation by Application:

Aerospace & Defense

Automotive Motorsport

Industrial Equipment

Others

Companies Profiled:

Hexcel (USA)

Toray Industries (Japan)

SGL Carbon (Germany)

Laiwu Runda New Material (China)

Hexion (USA)

Sumitomo Bakelite (Japan)

DIC Corporation (Japan)

Mitsui Chemicals (Japan)

BASF (Germany)

SI Group (USA)

Prefere Resins (Germany)

Kolon Industries (South Korea)

Aica Kogyo (Japan)

Asahi Yukizai (Japan)

ASK Chemicals (Germany)

Romit Resins (India)

Chang Chun Group (Taiwan)

Key Questions Answered:

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

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