

Global Carbon Fiber Thermal Pad Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Carbon Fiber Thermal Pad market size is expected to reach \$ 391 million by 2032, rising at a market growth of 9.1% CAGR during the forecast period (2026-2032).

Carbon fiber thermal pad is a kind of thermal conductive gasket with thermal conductive carbon fiber as the main raw material. It is used between heating components and radiator. By filling the air between the two gaps, the heat of electronic equipment can be accelerated to export, thus ensuring the performance and life of electronic products. Thermal conductive carbon fiber is a type of high thermal conductive carbon fiber material with good mechanical properties and excellent thermal and radiation heat dissipation capabilities. The fibrous high thermal conductive carbon powder made from this carbon fiber itself is fibrous and can be designed with thermal conductivity orientation, which is the biggest difference and advantage from previous thermal conductive materials. In 2025, global Carbon Fiber Thermal Pad production reached approximately 2,636 K Sq m, with an average global market price of around US\$ 78 per Sq m.

Carbon fiber thermal pad is a new generation of high-performance thermal interface material developed for high-power electronic devices and high-density heat dissipation structures. The product is constructed with a carbon fiber oriented structure to create an efficient thermal conduction channel, which can achieve rapid heat transfer between the heat source and the heat sink. It also has good flexibility, compression resilience, surface adhesion, and assembly adaptability. It can effectively fill the micro gaps on the surface of the device, reduce contact thermal resistance, improve system heat dissipation efficiency, and help electronic devices maintain stable performance under high load, high temperature rise, and long-term operating conditions.

In terms of applications, carbon fiber thermal pads are widely used in scenarios such as CPUs, GPUs, AI acceleration chips, ASIC chips, power modules, 5G communication modules, optical modules, vehicle domain controllers, inverters, battery management systems, server motherboards, and industrial power supplies. With the rapid development of AI computing devices, data centers, new energy vehicles, communication base stations, and high-power electronic systems, the requirements for thermal conductivity materials in terminal products are upgrading from ordinary gap filling and basic thermal conductivity to high thermal conductivity, low thermal resistance, aging resistance, low volatility, stable compression, and customized die-cutting. Carbon fiber thermal pads are becoming an important product direction in high-end thermal management materials due to their excellent thermal conductivity efficiency and structural adaptability.

This report studies the global Carbon Fiber Thermal Pad production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Carbon Fiber Thermal Pad total production and demand, 2021-2032, (K Sqm)

Global Carbon Fiber Thermal Pad total production value, 2021-2032, (USD Million)

Global Carbon Fiber Thermal Pad production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm), (based on production site)

Global Carbon Fiber Thermal Pad consumption by region & country, CAGR, 2021-2032 & (K Sqm)

U.S. VS China: Carbon Fiber Thermal Pad domestic production, consumption, key domestic manufacturers and share

Global Carbon Fiber Thermal Pad production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Sqm)

Global Carbon Fiber Thermal Pad production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm)

Global Carbon Fiber Thermal Pad production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm)

This report profiles key players in the global Carbon Fiber Thermal Pad 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 Thermal Grizzly, Fujipoly, Dexerials Corporation, Inspiraz Technology, Shenzhen HFC, Shenzhen Nuofeng Electronic Technology, Shanghai Allied Industrial, Shenzhen Liqun Lianfa Technology, Dongguan Sheen Electronic Technology, Shenzhen Goldlink Tongda Electronics, 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 Fiber Thermal Pad market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Sqm) and average price (US\$/Sq m) 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 Fiber Thermal Pad Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Carbon Fiber Thermal Pad Market, Segmentation by Type:

Thickness5mm

Global Carbon Fiber Thermal Pad Market, Segmentation by Thermal Conductivity:

Thermal Conductivity40w/M?K

Global Carbon Fiber Thermal Pad Market, Segmentation by Matrix Material:

Silica Based

Non Silicon Based

Global Carbon Fiber Thermal Pad Market, Segmentation by Application:

Smartphone

AR Glasses

Automotive Electronics

Communication Equipment

Other

Companies Profiled:

Thermal Grizzly

Fujipoly

Dexerials Corporation

Inspiraz Technology

Shenzhen HFC

Shenzhen Nuofeng Electronic Technology

Shanghai Allied Industrial

Shenzhen Liqun Lianfa Technology

Dongguan Sheen Electronic Technology

Shenzhen Goldlink Tongda Electronics

Key Questions Answered:

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

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