

Global ??Graphene Thermal Pad? Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global ??Graphene Thermal Pad? market size is expected to reach \$ 236 million by 2032, rising at a market growth of 17.2% CAGR during the forecast period (2026-2032).

In 2025, global Graphene Thermal Pads production reached approximately 3014 k pcs, the average price is 25 usd/pcs. ??Graphene Thermal Pads? are high-efficiency heat dissipation components made with graphene as the core material. Relying on the ultra-high thermal conductivity and flexibility of graphene, they are used to fill and adhere between the heat-generating components and heat dissipation parts of electronic devices, significantly reducing thermal resistance and efficiently conducting heat to ensure the stable operation of the equipment.

Market Concentration and Key Players:

From an international perspective, the market concentration of graphene thermal conductive gaskets is relatively high, mainly concentrated in developed countries such as Europe, America and Japan. For example, Thermal Grizzly and ORICO Technologies and other large manufacturers; from the domestic point of view, graphene thermal gasket manufacturers include Shenzhen Hongfucheng New Materials and Changzhou Fuxi Technology.

Manufacturing Processes and Market Trends:

The core of the manufacturing process of graphene thermal conductive gasket lies in combining the high thermal conductivity of graphene with the flexibility and good interface contact ability of the substrate. The key process involves the compounding of graphene and polymer (such as silica gel) and subsequent treatment, such as ultrasonic

treatment to form controllable microstructure of graphene at mesoscale to enhance flexibility, and then polishing to obtain smooth surface, thus significantly reducing contact thermal resistance, so that the finished product has high thermal conductivity and low interface thermal resistance. Laser-induced graphene technology is also a promising process. It can directly induce porous graphene structure on polyimide and other substrates by laser, which is suitable for preparing customized thermal conductive elements.

The current graphene thermal gasket market presents a rapid growth trend. This growth is mainly driven by the urgent need for efficient cooling solutions in areas such as artificial intelligence chips, high-performance computing devices, 5G communications and automotive electronics. Future trends focus on further optimization of material properties, such as the development of multifunctional materials such as composite carbon nanotubes or boron nitride, as well as the evolution towards intelligent and customized directions, such as integrated temperature sensing functions, while environmentally friendly recyclable materials are also the focus of research and development.

This report studies the global ??Graphene Thermal Pad? production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global ??Graphene Thermal Pad? total production and demand, 2021-2032, (K Pcs)

Global ??Graphene Thermal Pad? total production value, 2021-2032, (USD Million)

Global ??Graphene Thermal Pad? production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs), (based on production site)

Global ??Graphene Thermal Pad? consumption by region & country, CAGR, 2021-2032 & (K Pcs)

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

Global ??Graphene Thermal Pad? production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Pcs)

Global ??Graphene Thermal Pad? production by Size, production, value, CAGR,

2021-2032, (USD Million) & (K Pcs)

Global ??Graphene Thermal Pad? production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

This report profiles key players in the global ??Graphene 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, ORICO Technologies, Panasonic, Ohmite, Laird Performance Materials, Wurth Elektronik, Vicor, T-Global Technology, Leader Tech, Danish Graphene, 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 ??Graphene Thermal Pad? market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Pcs) and average price (US\$/Pcs) by manufacturer, by Size, 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 ??Graphene Thermal Pad? Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global ??Graphene Thermal Pad? Market, Segmentation by Size:

25?25mm

33?33mm

50?50mm

Others

Global ??Graphene Thermal Pad? Market, Segmentation by Materials:

Graphene Oxide Based Thermal Pad

Reduced Graphene Oxide Thermal Pad

Multilayer Graphene Thermal Pad

Global ??Graphene Thermal Pad? Market, Segmentation by Direction of Heat Conduction:

Isotropic Thermal Pad

Anisotropic Thermal Pad

Global ??Graphene Thermal Pad? Market, Segmentation by Application:

Consumer Electronics

Automotive Electronics

Communication Equipment

Industrial Equipment

Others

Companies Profiled:

Thermal Grizzly

ORICO Technologies

Panasonic

Ohmite

Laird Performance Materials

Würth Elektronik

Vicor

T-Global Technology

Leader Tech

Danish Graphene

Ryan Technology Co., Ltd.

Smart High Tech

Toyo Tanso

Shenzhen Hongfucheng New Materials

Changzhou Fuxi Technology

Segotep Electronic Technology

Carbonene

Dongguan Guangtai Technology

Ningbo Itherm Zhongyan Information Technology

Key Questions Answered:

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

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