

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

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Abstracts

The global Thermal Silicon Pad market size is expected to reach \$ 4045 million by 2032, rising at a market growth of 5.6% CAGR during the forecast period (2026-2032).

Thermal silicone gasket is a flexible thermal interface material made by adding thermal conductive fillers such as alumina, zinc oxide, boron nitride, aluminum nitride, graphite, etc. to silicone rubber or silicone elastomer as the matrix. It is usually supplied in the form of sheet, coil, die cut or customized molded parts. Its main function is to fill air gaps between chips, power devices, power modules, optical modules, battery modules, heat sinks, metal shells, and cold plates, reduce interface thermal resistance, improve heat conduction efficiency, and also play a role in buffering, insulation, shock absorption, flame retardancy, sealing, and assembly tolerance compensation. Thermal conductive silicone gaskets have the characteristics of soft adhesion, good compression resilience, wide thickness selection range, adjustable thermal conductivity, and convenient construction and assembly. They are widely used in consumer electronics, 5G communication equipment, servers, automotive electronics, new energy batteries, power semiconductors, industrial power supplies, LED lighting, display equipment, and medical electronics. In 2025, global Thermal Silicone Gasket production reached approximately 103.62 M Sq m, with an average global market price of around US\$ 25.9 per Sq m.

Thermal silicone gasket is one of the most widely used and stable gasket products in thermal interface materials. The demand side is mainly driven by 5G communication equipment, AI servers, GPU acceleration cards, automotive electronics, new energy vehicle electronic control, battery management systems, industrial power supplies, power modules, consumer electronics, and LED display devices. Among them, communication equipment, automotive electronics, server data centers, and power

electronics continue to increase their requirements for high thermal conductivity, low compressive stress, high insulation, low oil output, and long-term reliability. In terms of product structure, low to medium thermal conductivity gaskets ranging from 1.0 to 6.0 W per meter Kelvin are still the main sales force, suitable for ordinary electronic, power, and communication equipment; The unit price of high and ultra-high thermal conductivity gaskets with a temperature of 6.0 W per meter Kelvin or above is higher, mainly used for AI servers, SiC power modules, 5G RF modules, new energy vehicle electronic control, and high heat flux density devices. The future market opportunities mainly focus on high thermal conductivity and low hardness thermal conductivity silicone gaskets, automotive grade flame-retardant thermal conductivity gaskets, AI server ultra-high thermal conductivity gaskets, battery pack buffer thermal conductivity gaskets, low oil and low volatility thermal conductivity gaskets, automated mounting coils, and high-performance thermal interface materials matched with liquid cooling systems.

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

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Thermal Silicon 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 Henkel Corporation, Qnity Electronics, Parker Hannifin, 3M, Fujipoly, Shin Etsu Chemical, Momentive, Dow, Wacker, Kitagawa Industries, 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 Thermal Silicon 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 Thermal Silicon Pad Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Thermal Silicon Pad Market, Segmentation by Type:

Double Sided Adhesive Type

Single Sided Adhesive Type

Global Thermal Silicon Pad Market, Segmentation by Thermal Conductivity:

Thermal Conductivity10w/M?K

Global Thermal Silicon Pad Market, Segmentation by Hardness:

Normal Type

Super Soft Type

Global Thermal Silicon Pad Market, Segmentation by Application:

Consumer Electronics

Wearable Devices

Optoelectronics Industry

Telecommunications Base Station

Automotive Industry

Other

Companies Profiled:

Henkel Corporation

Qnity Electronics

Parker Hannifin

3M

Fujipoly

Shin Etsu Chemical

Momentive

Dow

Wacker

Kitagawa Industries

Kerafol Keramische Folien

T-Global

Shiu Li Tech

dB & DEGREES

Shenzhen AOCHUAN Technology

Shenzhen FRD Science & Technology

Shenzhen HFC

Shenzhen Goldlink Tongda Electronics

Dongguan Sheen Electronic Technology

Shenzhen Vital New Material

Suzhou Hemi Electronics

SinoGuide

Shenzhen Liquan Lianfa Technology

Shenzhen Union Tenda Technology

Key Questions Answered:

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

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