

Global Silicone-based Thermal Paste Supply, Demand and Key Producers, 2023-2029

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Abstracts

The global Silicone-based Thermal Paste market size is expected to reach \$ 208.7 million by 2029, rising at a market growth of 4.7% CAGR during the forecast period (2023-2029).

The thermal conductor paste market has experienced steady growth over the years, driven by the increasing demand for electronic devices, including computers, smartphones, gaming consoles, and automotive electronics.

The trend toward miniaturization and higher power densities in electronic components has led to a greater need for effective thermal management solutions, including high-performance thermal pastes.

Emerging applications in electric vehicles (EVs), renewable energy systems, and data centers have contributed to market growth.

Major manufacturers in the thermal conductor paste market include companies like Henkel Corporation, Shin-Etsu Chemical Co., Ltd., Parker Hannifin, 3M and Dow, among others. Top five players occupied 34.23% global market share in 2022.

These companies often offer a range of thermal paste products designed for different applications, including consumer electronics and industrial equipment.

The demand for thermal conductor paste varies by region, with Asia-Pacific being a significant market due to its dominance in electronics manufacturing.

North America and Europe also have a substantial presence in the market, driven by

their automotive, aerospace, and industrial sectors.

Asia Pacific is the largest consumption area, making up 56.37% in 2022. North America ranks the second, total thermal conductor paste accounted for 19.54%. Europe accounted for 17.14% occupied the third place.

Silicone-based thermal conductor paste, often referred to as thermal grease, thermal compound, or thermal paste, is a material used in electronics and computer hardware to improve the thermal conductivity between a heat-generating component (such as a CPU or GPU) and a heatsink or heat spreader. Its primary purpose is to fill in microscopic air gaps and imperfections between the two surfaces, ensuring better heat transfer and thus improving cooling performance.

Composition: Silicone-based thermal conductor paste is typically composed of a silicone polymer matrix filled with thermally conductive particles, such as metal oxides (e.g., aluminum oxide or zinc oxide). The silicone matrix provides good adhesion and flexibility, while the conductive particles enhance thermal conductivity.

This report studies the global Silicone-based Thermal Paste production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Silicone-based Thermal Paste, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of Silicone-based Thermal Paste that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Silicone-based Thermal Paste total production and demand, 2018-2029, (Tons)

Global Silicone-based Thermal Paste total production value, 2018-2029, (USD Million)

Global Silicone-based Thermal Paste production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (Tons)

Global Silicone-based Thermal Paste consumption by region & country, CAGR, 2018-2029 & (Tons)

U.S. VS China: Silicone-based Thermal Paste domestic production, consumption, key domestic manufacturers and share

Global Silicone-based Thermal Paste production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (Tons)

Global Silicone-based Thermal Paste production by Thermal Conductivity, production, value, CAGR, 2018-2029, (USD Million) & (Tons)

Global Silicone-based Thermal Paste production by Application production, value, CAGR, 2018-2029, (USD Million) & (Tons).

This reports profiles key players in the global Silicone-based Thermal Paste 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, Shin-Etsu Chemical, Parker Hannifin, Dow, Cooler Master, CHT Group, Denka Company Limited, Momentive and RS Components, 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 Silicone-based Thermal Paste market.

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/kg) by manufacturer, by Thermal Conductivity, and by Application. Data is given for the years 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global Silicone-based Thermal Paste Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Silicone-based Thermal Paste Market, Segmentation by Thermal Conductivity

Below 2.5 W/mK

2.5 to 5 W/mK

Above 5 W/mK

Global Silicone-based Thermal Paste Market, Segmentation by Application

Automotive and Transportation

LED

Electronics and Home Appliances

Telecommunications

Others

Companies Profiled:

Henkel

Shin-Etsu Chemical

Parker Hannifin

Dow

Cooler Master

CHT Group

Denka Company Limited

Momentive

RS Components

OKS

MacDermid Alpha Electronics Solutions

Fujipoly

Wacker

Arctic

NTE Electronics

Boyd

Noctua

Key Questions Answered

1. How big is the global Silicone-based Thermal Paste market?
2. What is the demand of the global Silicone-based Thermal Paste market?

3. What is the year over year growth of the global Silicone-based Thermal Paste market?
4. What is the production and production value of the global Silicone-based Thermal Paste market?
5. Who are the key producers in the global Silicone-based Thermal Paste market?

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