

Global Non-conductive Thermal Paste Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Non-conductive Thermal Paste market size is expected to reach \$ 1879 million by 2032, rising at a market growth of 6.2% CAGR during the forecast period (2026-2032).

Non-conductive thermal paste is a heat-transfer compound designed to improve thermal conductivity between surfaces (such as a CPU/GPU and heatsink) while maintaining electrical insulation, typically composed of a silicone or polymer matrix filled with thermally conductive but electrically insulating particles like aluminum oxide, boron nitride, or ceramic powders. Its supply chain begins upstream with specialty chemical producers supplying base polymers (silicones, epoxies), fillers (ceramic powders, oxide materials), and additives (dispersants, stabilizers); midstream formulators and compounders engineer the paste by optimizing viscosity, thermal conductivity, and long-term stability, followed by packaging into syringes or cartridges; downstream, the product is distributed to OEMs and contract manufacturers in electronics, automotive (especially EV power electronics and battery systems), telecommunications, and industrial equipment, as well as to the aftermarket for PC assembly and maintenance, where it is applied as a critical thermal management material without risk of short-circuiting electronic components. In 2025, global Non-conductive Thermal Paste output was about 200,000 tons with 250,000 tons of capacity, average prices of USD 5,000–9,000 per ton, and gross margins around 31%.

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

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

Highlights and key features of the study

Global Non-conductive Thermal Paste total production and demand, 2021-2032, (Kilotons)

Global Non-conductive Thermal Paste total production value, 2021-2032, (USD Million)

Global Non-conductive Thermal Paste production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global Non-conductive Thermal Paste consumption by region & country, CAGR, 2021-2032 & (Kilotons)

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

Global Non-conductive Thermal Paste production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global Non-conductive Thermal Paste production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Non-conductive Thermal Paste production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Non-conductive 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 Dow (USA), DuPont (USA), 3M (USA), Momentive (USA), Laird (USA), Master Bond (USA), Parker Hannifin (USA), Wakefield Thermal (USA), Henkel (Germany), Wacker Chemie (Germany), 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 Non-conductive Thermal Paste market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) 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 Non-conductive Thermal Paste Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Non-conductive Thermal Paste Market, Segmentation by Type:

Non-curing Type

Semi-curing Type

Fully Curing Type

Global Non-conductive Thermal Paste Market, Segmentation by Thermal Conductivity:

12 W/m-K

Global Non-conductive Thermal Paste Market, Segmentation by Application:

Automotive

Consumer Electronic

Telecom & Data Center

Industrial Equipment

Aerospace & Defense

Others

Companies Profiled:

Dow (USA)

DuPont (USA)

3M (USA)

Momentive (USA)

Laird (USA)

Master Bond (USA)

Parker Hannifin (USA)

Wakefield Thermal (USA)

Henkel (Germany)

Wacker Chemie (Germany)

Heraeus (Germany)

Electrolube (UK)

Shin-Etsu Chemical (Japan)

Fujipoly (Japan)

Dexerials (Japan)

Nagase ChemteX (Japan)

KCC (South Korea)

Huitian New Materials (China)

FRD Science & Technology (China)

Tianmai Thermal Technology (China)

Key Questions Answered:

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

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