

Global High Temperature Thermal Grease Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global High Temperature Thermal Grease market size is expected to reach \$ 1256 million by 2032, rising at a market growth of 7.2% CAGR during the forecast period (2026-2032).

Global sales of high temperature thermal grease reached 357,374 tons in 2025, with an average price of US\$2,136 per ton.

High temperature thermal grease is a type of thermal interface material (TIM) that is used to transfer heat between two surfaces that are in close proximity. High temperature thermal grease is typically made of a high-performance material, such as silicone or graphite, that has good thermal conductivity and can withstand high temperatures.

The raw material composition of high temperature thermal grease is simple: 60-70% is an organosilicon base material such as dimethyl silicone oil, providing temperature resistance and flexibility; 30-40% is high thermal conductivity inorganic fillers such as alumina, boron nitride, and silicon carbide, which determine the final thermal conductivity. The cost structure is thus divided into two parts: silicone oil prices fluctuate with the organosilicon monomer market, with a year-on-year increase of approximately 12% in 2025, accounting for more than half of the total cost; alumina and boron nitride at the filler end have low unit prices but are used in large quantities, and high thermal conductivity models require nano- or spherical powders, accounting for 30-40% of the cost, with the remainder being additives, packaging, and labor costs.

This report studies the global High Temperature Thermal Grease production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for High Temperature Thermal Grease 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 High Temperature

Thermal Grease that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global High Temperature Thermal Grease total production and demand, 2021-2032, (Tons)

Global High Temperature Thermal Grease total production value, 2021-2032, (USD Million)

Global High Temperature Thermal Grease production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global High Temperature Thermal Grease consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: High Temperature Thermal Grease domestic production, consumption, key domestic manufacturers and share

Global High Temperature Thermal Grease production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global High Temperature Thermal Grease production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global High Temperature Thermal Grease production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global High Temperature Thermal Grease 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 Shin-Etsu, 3M, Parker Hannifin, DOW, Henkel, Laird Performance Materials, Zitec, Timtronics, Sika, AMG Electronic, 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 High Temperature Thermal Grease market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) 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 High Temperature Thermal Grease Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global High Temperature Thermal Grease Market, Segmentation by Type:

Conductivity Thermal Grease

Non-conductive Thermal Grease

Global High Temperature Thermal Grease Market, Segmentation by Chemical Structure:

Silicon-based

Non-silicon-based

Global High Temperature Thermal Grease Market, Segmentation by Temperature:

Standard Type

High temperature Type

Global High Temperature Thermal Grease Market, Segmentation by Application:

Electronics & Home Appliances

Automotive

Telecommunications Industry

LED Lighting

Other

Companies Profiled:

Shin-Etsu

3M

Parker Hannifin

DOW

Henkel

Laird Performance Materials

Ziitek

Timtronics

Sika

AMG Electronic

RS Components

Momentive

CHT Group

Key Questions Answered:

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

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