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Global Heating Resistor Paste Supply, Demand and Key Producers, 2026-2032

https://marketpublishers.com/r/GA5FCA9CD059EN.html
Date: September 2026
Pages: 146
Price: US$ 4,480.00 (Single User License)
ID: GA5FCA9CD059EN

Abstracts

The global Heating Resistor Paste market size is expected to reach $ 82.72 million by 2032, rising at a market growth of 6.1% CAGR during the forecast period (2026-2032).

In 2025, global sales of Heating Resistor Paste were approximately 560 tonnes, with an average manufacturer-level selling price of around USD 95 per kilogram. The gross margin of major manufacturers in the industry was approximately 30%–42%.

Heating Resistor Paste is a type of functional electronic paste used to form resistive heating layers. It is typically formulated by combining resistive functional materials, such as carbon materials, metal and alloy powders, and metal oxides, with glass frit or organic resin binders, solvents, and functional additives. Before application, the product is supplied as a viscous paste or ink. It is deposited onto substrate surfaces through screen printing, coating, or similar processes and then dried, cured, or fired at high temperatures to form a solid film with a specified resistance, strong adhesion, and adequate power-handling capability. When energized, the resistive film converts electrical energy into thermal energy through the Joule heating effect. Its key performance indicators include resistance stability, heating uniformity, power density, resistance–temperature characteristics, thermal shock resistance, and durability under repeated heating and cooling cycles.

The upstream supply chain of Heating Resistor Paste mainly includes carbon black, graphite, metal powders, metal oxides, glass frit, organic resins, solvents, dispersants, and rheology modifiers. Formulations must be tailored to the printing process, film-forming temperature, target sheet resistance, and substrate properties. Midstream manufacturers are responsible for formulation development, mixing and dispersion, grinding, filtration, and quality control before supplying the paste to heating-element

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manufacturers. Downstream companies combine the paste with conductive electrodes, dielectric insulation layers, and protective coatings through printing, curing, or firing processes to produce flexible heating films, ceramic heaters, metal-substrate thick-film heaters, and glass heating elements. These products are ultimately used in automotive, new energy battery, home appliance, industrial equipment, medical equipment, and consumer electronics applications.

Report Scope

This report studies the global Heating Resistor Paste production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Heating Resistor Paste total production and demand, 2021-2032, (Tons)

Global Heating Resistor Paste total production value, 2021-2032, (USD Million)

Global Heating Resistor Paste production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Heating Resistor Paste consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Heating Resistor Paste domestic production, consumption, key domestic manufacturers and share

Global Heating Resistor Paste production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Heating Resistor Paste production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

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Global Heating Resistor Paste production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Heating Resistor 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 Heraeus, Element Solutions, Vibrantz Technologies, Henkel, Creative Materials, Dycotec Materials, TANAKA Precious Metal Technologies, Mitsuboshi Belting, KOARTAN Microelectronic Interconnect Materials, Nagase ChemteX, 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 Heating Resistor 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 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 Heating Resistor Paste Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

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India

Rest of World

Market Segmentation

Global Heating Resistor Paste Market, Segmentation by Type:

Glass Substrate

Metal Substrate

Ceramic Substrate

Global Heating Resistor Paste Market, Segmentation by Resistance–Temperature Characteristic:

Conventional Type

PTC Type

Global Heating Resistor Paste Market, Segmentation by Curing Temperature:

Low-Temperature Curing (?200°C)

Medium-Temperature Curing (>200–600°C)

High-Temperature Sintering (>600°C)

Global Heating Resistor Paste Market, Segmentation by Application:

Automotive

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New Energy Battery

Home Appliance

Industrial Equipment

Medical Equipment

Consumer Electronics

Other

Companies Profiled:

Heraeus

Element Solutions

Vibrantz Technologies

Henkel

Creative Materials

Dycotec Materials

TANAKA Precious Metal Technologies

Mitsuboshi Belting

KOARTAN Microelectronic Interconnect Materials

Nagase ChemteX

Hunan LEED Electronic Ink

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Shenzhen Saiya Electronic Paste

Wuhan Sometal Electronic Material

Shenzhen Senndai Electronic Material

Hunan Tefa New Material

Advanced Institute (Shenzhen) Technology

Key Questions Answered:

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

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