

Global Temperature-Sensitive Conductive Carbon Paste Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GA1F8982067CEN.html>

Date: July 2026

Pages: 89

Price: US\$ 4,480.00 (Single User License)

ID: GA1F8982067CEN

Abstracts

The global Temperature-Sensitive Conductive Carbon Paste market size is expected to reach \$ 83.78 million by 2032, rising at a market growth of 11.7% CAGR during the forecast period (2026-2032).

In 2025, global sales volume of Temperature-Sensitive Conductive Carbon Paste was approximately 220 tons, with an average global market price of about USD 170/kg. Gross margins of major manufacturers were generally in the range of 35%-55%.

Temperature-Sensitive Conductive Carbon Paste is a functional carbon-based paste used in printed thermistors, flexible temperature-sensing films, PTC self-regulating heating sheets, and related devices. It is typically formulated by dispersing conductive fillers such as carbon nanotubes, carbon black, graphite, or graphene with low-temperature-curing resin, solvents, and additives. The product is suitable for screen printing and can form a temperature-sensitive resistive functional layer on sheet or film substrates such as PET, PVC, and PI. Its resistance changes significantly with temperature, while offering fast drying, low-temperature curing, good printability, substrate compatibility, adhesion, and temperature-resistance linearity.

Upstream materials for Temperature-Sensitive Conductive Carbon Paste mainly include carbon-based conductive materials such as carbon nanotubes, carbon black, graphite, and graphene, as well as low-temperature-curing resin, solvents, dispersants, leveling agents, and adhesion promoters. Midstream production involves formulation design, grinding and dispersion, viscosity control, filtration, and packaging to obtain printable paste products. Downstream applications mainly include printed thermistors, flexible temperature-sensing films, PTC self-regulating heating sheets, overheat protection patches, temperature-sensitive labels, and other temperature-sensitive functional

devices.

This report studies the global Temperature-Sensitive Conductive Carbon Paste production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Temperature-Sensitive Conductive Carbon 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 Temperature-Sensitive Conductive Carbon Paste that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Temperature-Sensitive Conductive Carbon Paste total production and demand, 2021-2032, (Tons)

Global Temperature-Sensitive Conductive Carbon Paste total production value, 2021-2032, (USD Million)

Global Temperature-Sensitive Conductive Carbon Paste production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Temperature-Sensitive Conductive Carbon Paste consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Temperature-Sensitive Conductive Carbon Paste domestic production, consumption, key domestic manufacturers and share

Global Temperature-Sensitive Conductive Carbon Paste production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Temperature-Sensitive Conductive Carbon Paste production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Temperature-Sensitive Conductive Carbon Paste production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Temperature-Sensitive Conductive Carbon 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, Heraeus Electronics, Celanese Corporation, Shenzhen Senndai Electronic Material, 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 Temperature-Sensitive Conductive Carbon 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 Temperature-Sensitive Conductive Carbon Paste Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Temperature-Sensitive Conductive Carbon Paste Market, Segmentation by Type:

NTC Negative Temperature Coefficient Type

PTC Positive Temperature Coefficient Type

Global Temperature-Sensitive Conductive Carbon Paste Market, Segmentation by Conductive Filler:

Carbon Black Type

Graphite Type

Carbon Nanotube Type

Graphene Type

Global Temperature-Sensitive Conductive Carbon Paste Market, Segmentation by Compatible Substrate:

PET Film

PVC Film

PI Film

Global Temperature-Sensitive Conductive Carbon Paste Market, Segmentation by Application:

Printed Thermistor

Flexible Temperature-Sensing Film

PTC Self-Regulating Heating Sheet

Overheat Protection Patch

Temperature-Sensitive Label

Other

Companies Profiled:

Henkel

Heraeus Electronics

Celanese Corporation

Shenzhen Senndai Electronic Material

Key Questions Answered:

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

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