

Global Temperature-Sensitive Conductive Carbon Paste Market Growth 2026-2032

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Abstracts

The global Temperature-Sensitive Conductive Carbon Paste market size is predicted to grow from US\$ 36.59 million in 2025 to US\$ 82.83 million in 2032; it is expected to grow at a CAGR of 12.4% from 2026 to 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.

United States market for Temperature-Sensitive Conductive Carbon Paste is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Temperature-Sensitive Conductive Carbon Paste is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Temperature-Sensitive Conductive Carbon Paste is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Temperature-Sensitive Conductive Carbon Paste players cover Henkel, Heraeus Electronics, Celanese Corporation, Shenzhen Senndai Electronic Material, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Temperature-Sensitive Conductive Carbon Paste Industry Forecast" looks at past sales and reviews total world Temperature-Sensitive Conductive Carbon Paste sales in 2025, providing a comprehensive analysis by region and market sector of projected Temperature-Sensitive Conductive Carbon Paste sales for 2026 through 2032. With Temperature-Sensitive Conductive Carbon Paste sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Temperature-Sensitive Conductive Carbon Paste industry.

This Insight Report provides a comprehensive analysis of the global Temperature-Sensitive Conductive Carbon Paste landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Temperature-Sensitive Conductive Carbon Paste portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Temperature-Sensitive Conductive Carbon Paste market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Temperature-Sensitive Conductive Carbon Paste and

breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Temperature-Sensitive Conductive Carbon Paste.

This report presents a comprehensive overview, market shares, and growth opportunities of Temperature-Sensitive Conductive Carbon Paste market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

NTC Negative Temperature Coefficient Type

PTC Positive Temperature Coefficient Type

Segmentation by Conductive Filler:

Carbon Black Type

Graphite Type

Carbon Nanotube Type

Graphene Type

Segmentation by Compatible Substrate:

PET Film

PVC Film

PI Film

Segmentation by Application:

Printed Thermistor

Flexible Temperature-Sensing Film

PTC Self-Regulating Heating Sheet

Overheat Protection Patch

Temperature-Sensitive Label

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Henkel

Heraeus Electronics

Celanese Corporation

Shenzhen Senndai Electronic Material

Key Questions Addressed in this Report

What is the 10-year outlook for the global Temperature-Sensitive Conductive Carbon Paste market?

What factors are driving Temperature-Sensitive Conductive Carbon Paste market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Temperature-Sensitive Conductive Carbon Paste market opportunities vary by end market size?

How does Temperature-Sensitive Conductive Carbon Paste break out by Type, by Application?

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