

Global Resettable Thermal Fuse Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Resettable Thermal Fuse market size was valued at US\$ 494 million in 2025 and is forecast to a readjusted size of US\$ 711 million by 2032 with a CAGR of 5.4% during review period.

Resettable Thermal Fuse is a reusable thermal and overcurrent protection device based on positive temperature coefficient thermistor materials, designed to increase resistance when abnormal current or temperature rise occurs, limit current flow, and recover after the fault condition is removed. Compared with disposable thermal fuses or conventional one-time fuse devices, its advantages lie in resettable protection, lower maintenance cost, compact structure, fast thermal response, better circuit continuity, and stronger suitability for repeated protection in compact electronic systems. In 2025, production was approximately 1,200 million units and the average price was USD 0.4 per unit. The industry's capacity utilization rate in 2025 was about 70% and the average gross margin was around 30%. Upstream, the key materials include polyolefin resin, conductive carbon black, and copper foil, with representative suppliers such as LyondellBasell, Cabot, and Nuode New Materials providing polymer base materials, conductive fillers, and copper foil materials. The midstream segment focuses on thermal-sensitive polymer formulation, conductive network control, sheet compounding, electrode lamination, chip forming, resistance calibration, temperature response testing, reliability verification, and automated assembly, which together determine protection accuracy, reset performance, resistance stability, response speed, safety reliability, and cost competitiveness. Downstream, Resettable Thermal Fuse is mainly used in telecommunications, consumer electronics, and home appliances, with representative customer companies including Huawei, Samsung Electronics, and Midea Group.

Resettable thermal fuses are protection devices that utilize special polymeric or inorganic functional materials to sharply increase resistance and interrupt the circuit when overheating occurs, and to automatically restore conductivity once the temperature decreases. They offer advantages such as fast response, reusability, and cost efficiency. With rising demand for reliable thermal protection in electric vehicles, energy storage systems, consumer electronics, and smart appliances, the market outlook is highly promising. Looking ahead, as products evolve toward miniaturization, higher current-handling capacity, and integration with intelligent monitoring systems, applications in fast charging, automotive battery management systems, and green energy equipment are expected to expand significantly, creating new opportunities for manufacturers to differentiate performance and deliver system-level safety solutions.

This report is a detailed and comprehensive analysis for global Resettable Thermal Fuse market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Resettable Thermal Fuse market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Resettable Thermal Fuse market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Resettable Thermal Fuse market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Resettable Thermal Fuse market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Resettable Thermal Fuse

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Resettable Thermal Fuse market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Littelfuse (USA), Bourns (USA), Eaton (Ireland), Bel Fuse (USA), TE Connectivity (Switzerland), SCHURTER (Switzerland), TDK Electronics (Germany), Murata Manufacturing (Japan), Fuzetec Technology (China), Wayon Electronics (China), etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Resettable Thermal Fuse market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

CPTC Fuse

PPTC Fuse

Market segment by Voltage

Voltage?16V

16V

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