

Global Thermal Cutoff Device 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 Thermal Cutoff Device market size was valued at US\$ 1008 million in 2025 and is forecast to a readjusted size of US\$ 1519 million by 2032 with a CAGR of 6.2% during review period.

A thermal fuse is a one-time temperature-sensitive safety protection component. When the ambient or device temperature exceeds a set value, its internal alloy or organic particles melt and permanently disconnect the circuit, thus preventing overheating, fire, or equipment damage. This product is widely used in home appliances, power modules, battery packs, heating equipment, and consumer electronics to provide reliable over-temperature protection. The upstream of the thermal fuse industry chain includes basic raw materials such as fusible alloys, ceramic housings, leads, insulating sleeves, and temperature control materials. The midstream involves precision assembly, packaging and sealing, temperature calibration, and automated testing and manufacturing. Downstream applications cover home appliance manufacturers, battery pack manufacturers, power tool companies, automotive electronics suppliers, and industrial equipment integrators, while also providing services such as certification testing, reliability verification, and customized temperature design. In 2025, the global production of thermal fuses was approximately 7 billion units, with a global average market price of approximately US\$0.14 per unit. The gross profit margin of major companies in the industry was between 25% and 35%. In 2025, the global production capacity of thermal fuses was approximately 9.333 billion units.

The thermal cutoff device market benefits from steady demand across home appliances, consumer electronics, and battery-powered products where safety regulations are increasingly strict. Rising adoption of compact and high-power-density

devices generates more heat, driving the need for reliable thermal protection components. Miniaturization, higher temperature accuracy, and improved consistency are becoming key technical trends. Growth of electric vehicles, lithium battery packs, and smart appliances further expands application scenarios. In addition, manufacturers focus on automated mass production and cost control to maintain competitiveness in this high-volume, low-price market. Overall, the industry is expected to grow steadily with stable replacement demand and expanding safety standards worldwide.

This report is a detailed and comprehensive analysis for global Thermal Cutoff Device 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 Thermal Cutoff Device market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Thermal Cutoff Device 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 Thermal Cutoff Device 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 Thermal Cutoff Device 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 Thermal Cutoff Device
- 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 Thermal Cutoff Device 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 Schott, Panasonic, Emerson, Bourns, UCHIHASHI, Sungwoo Industrial, Microtherm, SETsafe, Zhangzhou Aupo Electronics, Bel Fuse, etc.

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

Market Segmentation

Thermal Cutoff Device 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

Single-use

Resettable

Market segment by Operating Temperature

Low-Temperature TCO (150°C)

Market segment by Mounting Type

Radial Leaded TCO

Surface Mount TCO (SMT)

Axial Leaded TCO

Market segment by Application

Household Appliance

Automotive

Others

Major players covered

Schott

Panasonic

Emerson

Bourns

UCHIHASHI

Sungwoo Industrial

Microtherm

SETsafe

Zhangzhou Aupo Electronics

Bel Fuse

A.R.Electric

Littelfuse

Market segment by region, regional analysis covers
North America (United States, Canada, and Mexico)
Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)
Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)
South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Thermal Cutoff Device product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Thermal Cutoff Device, with price, sales quantity, revenue, and global market share of Thermal Cutoff Device from 2021 to 2026.

Chapter 3, the Thermal Cutoff Device competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Thermal Cutoff Device breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Thermal Cutoff Device market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Thermal Cutoff Device.

Chapter 14 and 15, to describe Thermal Cutoff Device sales channel, distributors, customers, research findings and conclusion.

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