

Global Thermal (Non-Rechargeable) Batteries 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 (Non-Rechargeable) Batteries market size was valued at US\$ 519 million in 2025 and is forecast to a readjusted size of US\$ 794 million by 2032 with a CAGR of 5.9% during review period.

In 2025, global output of thermal (non-rechargeable) batteries reaches 1.2 million units, with an average selling price of 420 USD per unit, production capacity of 1.5 million units, and a gross margin of 38%.

Thermal (Non-Rechargeable) batteries are primary high-temperature reserve batteries whose electrolyte remains solid and non-conductive under normal conditions. When activated by an internal heat source, the electrolyte melts into a conductive molten salt, enabling the battery to deliver high power output for a limited operational period. These batteries typically use lithium-alloy anodes and metal sulfide cathodes, offering long storage life, high reliability, and strong resistance to harsh environments. They are widely used in missiles, rockets, aerospace systems, and other military applications.

The upstream of the thermal (non-rechargeable) battery industry mainly includes suppliers of lithium-alloy materials (such as Li-Si and Li-Al), metal sulfide cathode materials (such as FeS₂ and CoS₂), molten salt electrolytes (such as LiCl-KCl systems), separator materials, and heat source components. The midstream consists of thermal battery manufacturers responsible for cell design, assembly, and reliability verification. Downstream applications are mainly concentrated in defense and aerospace sectors, including missile guidance systems, rocket propulsion systems, smart munitions, and spacecraft power systems, where high reliability and high

instantaneous power output are required.

This report is a detailed and comprehensive analysis for global Thermal (Non-Rechargeable) Batteries market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Cathode Material 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 (Non-Rechargeable) Batteries market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Thermal (Non-Rechargeable) Batteries 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 (Non-Rechargeable) Batteries market size and forecasts, by Cathode Material and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Thermal (Non-Rechargeable) Batteries 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 (Non-Rechargeable) Batteries

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 (Non-Rechargeable) Batteries 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 EaglePicher, Advanced Thermal Batteries, ASB Group, Diehl Energy Products, EaglePicher Technologies, EnerSys, SINOEV Technologies, T?BiTAK, Wuhan JOHO Technology, RAFAEL Advanced Defense Systems, etc.

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

Market Segmentation

Thermal (Non-Rechargeable) Batteries market is split by Cathode Material and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Cathode Material, 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 Cathode Material

Iron Disulfide Type (FeS₂)

Cobalt Disulfide Type (CoS₂)

Market segment by Anode Material

Lithium-Silicon Alloy Type (Li-Si)

Lithium-Aluminum Alloy Type (Li-Al)

Market segment by Structural Design

Stacked Type

Cylindrical Type

Market segment by Application

Military

Civil

Major players covered

EaglePicher

Advanced Thermal Batteries

ASB Group

Diehl Energy Products

EaglePicher Technologies

EnerSys

SINOEV Technologies

T?BiTAK

Wuhan JOHO Technology

RAFAEL Advanced Defense Systems

HBL Power Systems

Vitzrocell

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 (Non-Rechargeable) Batteries product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Thermal (Non-Rechargeable) Batteries, with price, sales quantity, revenue, and global market share of Thermal (Non-Rechargeable) Batteries from 2021 to 2026.

Chapter 3, the Thermal (Non-Rechargeable) Batteries competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Thermal (Non-Rechargeable) Batteries 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 Cathode Material and by Application, with sales market share and growth rate by Cathode Material, 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 (Non-Rechargeable) Batteries market forecast, by regions, by Cathode Material, 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

(Non-Rechargeable) Batteries.

Chapter 14 and 15, to describe Thermal (Non-Rechargeable) Batteries sales channel, distributors, customers, research findings and conclusion.

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