

Global Thermal (Non-Rechargeable) Batteries Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Thermal (Non-Rechargeable) Batteries market size is expected to reach \$ 794 million by 2032, rising at a market growth of 5.9% CAGR during the forecast period (2026-2032).

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 studies the global Thermal (Non-Rechargeable) Batteries production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Thermal (Non-Rechargeable) Batteries 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 Thermal (Non-Rechargeable) Batteries that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Thermal (Non-Rechargeable) Batteries total production and demand, 2021-2032, (K Units)

Global Thermal (Non-Rechargeable) Batteries total production value, 2021-2032, (USD Million)

Global Thermal (Non-Rechargeable) Batteries production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Thermal (Non-Rechargeable) Batteries consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Thermal (Non-Rechargeable) Batteries domestic production, consumption, key domestic manufacturers and share

Global Thermal (Non-Rechargeable) Batteries production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Thermal (Non-Rechargeable) Batteries production by Cathode Material, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Thermal (Non-Rechargeable) Batteries production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Thermal (Non-Rechargeable) Batteries 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Thermal (Non-Rechargeable) Batteries market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Cathode Material, 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 Thermal (Non-Rechargeable) Batteries Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Thermal (Non-Rechargeable) Batteries Market, Segmentation by Cathode Material:

Iron Disulfide Type (FeS₂)

Cobalt Disulfide Type (CoS₂)

Global Thermal (Non-Rechargeable) Batteries Market, Segmentation by Anode

Material:

Lithium-Silicon Alloy Type (Li-Si)

Lithium-Aluminum Alloy Type (Li-Al)

Global Thermal (Non-Rechargeable) Batteries Market, Segmentation by Structural Design:

Stacked Type

Cylindrical Type

Global Thermal (Non-Rechargeable) Batteries Market, Segmentation by Application:

Military

Civil

Companies Profiled:

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

Key Questions Answered:

1. How big is the global Thermal (Non-Rechargeable) Batteries market?
2. What is the demand of the global Thermal (Non-Rechargeable) Batteries market?
3. What is the year over year growth of the global Thermal (Non-Rechargeable) Batteries market?
4. What is the production and production value of the global Thermal (Non-Rechargeable) Batteries market?
5. Who are the key producers in the global Thermal (Non-Rechargeable) Batteries market?
6. What are the growth factors driving the market demand?

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