

Global Zinc-Carbon Battery Market by Manufacturers, Regions, Type and Application, Forecast to 2023

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Abstracts

A zinc—carbon battery is a dry cell battery that delivers a potential of 1.5 volts between a zinc metal electrode and a carbon rod from an electrochemical reaction between zinc and manganese dioxide mediated by a suitable electrolyte. It is usually conveniently packaged in a zinc can which also serves as the anode with a negative potential, while the inert carbon rod is the positive cathode. General purpose batteries may use an aqueous paste of ammonium chloride as electrolyte, possibly mixed with some zinc chloride solution. Heavy duty types use a paste primarily composed of zinc chloride.

Scope of the Report:

This report focuses on the Zinc-Carbon Battery in global market, especially in North America, Europe and Asia-Pacific, South America, Middle East and Africa. This report categorizes the market based on manufacturers, regions, type and application. Carbon zinc/zinc chloride batteries were the first commercial dry battery, and are currently available in most common sizes, including AA, AAA, C, D, and 9 volt. They are the least expensive primary batteries, and provide good, low cost performance for general purpose applications such as cameras, remote controls, flashlights, and toys.

The zinc casing of a zinc-carbon-zinc chloride battery also acts as its negative terminal. A graphite rod surrounded by powdered carbon and manganese oxide (added to increase electrical conductivity) serves as the positive terminal. Carbon is a key component of the battery's construction, but plays no actual role in the electrochemical reaction—it serves only to collect current and reduce the resistance of the manganese oxide mix. "Zinc-manganese cells" would be a more accurate name for these batteries.

Alkaline battery chemistry is the most dominant primary battery chemistry, contributing



over 60% of the primary battery market. Alkaline batteries are composed of basic (alkaline) electrolytes of potassium hydroxide. Primary lithium batteries have lithium metal or lithium compounds as anode, while the cathode is likely to composed of any other material depending on the usage and output demand (such as thonyl chloride, iodide, manganese dioxide and the like). These batteries compete with alkaline batteries as these are anticipated to offer output voltages ranging from 1.5 volts to 3.7 volts. Moreover, as lithium is a light-weight material, it is likely to offer batteries of lesser weight. Advantages of these batteries include lighter weight than alkaline batteries (thus, used more in industrial and medical applications), higher energy density offering better performance compared with alkaline batteries and availability in a wide-range of varieties that are likely to be most suited for specific applications. Alkaline and lithium batteries are generally both more technologically advanced and generally more expensive, with a longer battery life, than carbon zinc batteries.

The worldwide market for Zinc-Carbon Battery is expected to grow at a CAGR of roughly xx% over the next five years, will reach 2060 million US\$ in 2023, from 2060 million US\$ in 2017, according to a new GIR (Global Info Research) study.

Market Segment by Manufacturers, this report covers

555BF
Energizer Batteries
Spectrum Brands
Sonluk
Panasonic
Fujitsu
MUSTANG
3circles
Huatai

Sunwatt



Nanfu
Toshiba
Market Segment by Regions, regional analysis covers
Market Degitient by Regions, regional analysis covers
North America (United States, Canada and Mexico)
Europe (Germany, France, UK, Russia and Italy)
Asia-Pacific (China, Japan, Korea, India and Southeast Asia)
South America (Brazil, Argentina, Colombia etc.)
Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria and South Africa)
Market Segment by Type, covers
AA
AAA
C Battery
D Battery
9V Battery
Market Segment by Applications, can be divided into
Flashlights
Entertainment
Toy and Novelty



Remote Control

Others

There are 15 Chapters to deeply display the global Zinc-Carbon Battery market.

Chapter 1, to describe Zinc-Carbon Battery Introduction, product scope, market overview, market opportunities, market risk, market driving force;

Chapter 2, to analyze the top manufacturers of Zinc-Carbon Battery, with sales, revenue, and price of Zinc-Carbon Battery, in 2016 and 2017;

Chapter 3, to display the competitive situation among the top manufacturers, with sales, revenue and market share in 2016 and 2017;

Chapter 4, to show the global market by regions, with sales, revenue and market share of Zinc-Carbon Battery, for each region, from 2013 to 2018;

Chapter 5, 6, 7, 8 and 9, to analyze the market by countries, by type, by application and by manufacturers, with sales, revenue and market share by key countries in these regions;

Chapter 10 and 11, to show the market by type and application, with sales market share and growth rate by type, application, from 2013 to 2018;

Chapter 12, Zinc-Carbon Battery market forecast, by regions, type and application, with sales and revenue, from 2018 to 2023;

Chapter 13, 14 and 15, to describe Zinc-Carbon Battery sales channel, distributors, traders, dealers, Research Findings and Conclusion, appendix and data source



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