

# Global Zinc Bromide Solution Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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## Abstracts

According to our (Global Info Research) latest study, the global Zinc Bromide Solution market size was valued at USD 77 million in 2023 and is forecast to a readjusted size of USD 197.4 million by 2030 with a CAGR of 14.4% during review period.

Zinc bromide solution refers to a liquid mixture that contains zinc bromide ( $ZnBr_2$ ) dissolved in a solvent, typically water. Zinc bromide itself is a chemical compound composed of zinc and bromine, and it can exist in various forms, including solid crystals or solutions. In the context of solutions, zinc bromide is often dissolved in water to form a clear, colorless to yellowish liquid.

Under the guidance of the global 'low carbon' goal, energy storage technology has become an important anchor for the development of the new energy industry. In practical applications of energy, energy storage systems can smooth energy fluctuations, achieve smooth and stable energy output, and improve actual energy utilization. They are an important means to make up for the shortcomings of current mainstream zero-carbon new energy technologies. The global lithium-ion battery market scale exceeds 1100.0GWh, and with the further development of electric vehicles and other industries, the global market share of lithium-ion batteries has further increased. However, in the field of energy storage batteries, lithium-ion batteries face the dilemma of declining competitiveness due to their own limitations.

As an energy storage battery that is generally considered to have high potential, zinc-bromine flow batteries have the characteristics of high safety, low cost, long life, easy integration, and easy operation and maintenance. The material cost of zinc-bromine flow batteries is only 20% to 30% of that of lithium-ion batteries, and its operation

method also determines that flow batteries have unique advantages in terms of safety. At present, zinc-bromine flow batteries are still in the development stage internationally, and their technical application level is far from the level of lithium-ion batteries. To realize the industrialization of zinc-bromine flow batteries, there are many technical problems to be solved. On the one hand, new materials need to be developed for the electrodes and electrolytes of zinc-bromine flow batteries. Existing materials will produce chemical reactions during use, generating reactants such as zinc dendrites, resulting in low electroplating or even peeling of the zinc anode, reduced Coulombic efficiency, capacity degradation, and serious self-discharge problems, resulting in a waste of resources. On the other hand, in large-size battery scenarios, the stack system also faces the problems of large voltage drop, high efficiency loss, and poor mass transfer within the electrode. To break through the technical bottleneck, it is necessary to collaboratively optimize the flow and mass transfer structures of the stack system so that the flow channel and electrode structure work together to transfer ions and reduce electrolyte pressure.

In recent decades, zinc-bromine flow battery technology has achieved rapid development in the United States, Japan, Australia and other countries. In addition, China's zinc-bromine flow battery has risen rapidly in recent years and continues to expand its production capacity. Major global representative companies include ZBB Energy, Primus Power, Redflow, China Anchu Energy Storage Group, Anhui Meineng Store Energy System, Shaanxi Huayin Technology, etc. , with the rapid development of renewable energy and the promotion and application of smart grids, the market demand for zinc-bromine batteries will gradually increase. In the future, zinc-bromine batteries may be widely used in electric vehicles, smart homes, renewable energy storage and other fields. This also simultaneously stimulates the expansion of the zinc bromide market.

The Global Info Research report includes an overview of the development of the Zinc Bromide Solution industry chain, the market status of Oil & Gas (70% Below, 70%-75%), Batteries & Energy Storage (70% Below, 70%-75%), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Zinc Bromide Solution.

Regionally, the report analyzes the Zinc Bromide Solution markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Zinc Bromide Solution market, with robust domestic demand, supportive policies, and a strong manufacturing base.

## Key Features:

The report presents comprehensive understanding of the Zinc Bromide Solution market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Zinc Bromide Solution industry.

The report involves analyzing the market at a macro level:

**Market Sizing and Segmentation:** Report collect data on the overall market size, including the sales quantity (Ton), revenue generated, and market share of different by Pure (e.g., 70% Below, 70%-75%).

**Industry Analysis:** Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Zinc Bromide Solution market.

**Regional Analysis:** The report involves examining the Zinc Bromide Solution market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

**Market Projections:** Report covers the gathered data and analysis to make future projections and forecasts for the Zinc Bromide Solution market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Zinc Bromide Solution:

**Company Analysis:** Report covers individual Zinc Bromide Solution manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

**Consumer Analysis:** Report covers data on consumer behaviour, preferences, and attitudes towards Zinc Bromide Solution This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Oil & Gas,

Batteries & Energy Storage).

**Technology Analysis:** Report covers specific technologies relevant to Zinc Bromide Solution. It assesses the current state, advancements, and potential future developments in Zinc Bromide Solution areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Zinc Bromide Solution market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

**Market Validation:** The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

### Market Segmentation

Zinc Bromide Solution market is split by Pure and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Pure, and by Application in terms of volume and value.

#### Market segment by Pure

70% Below

70%-75%

75% Above

#### Market segment by Application

Oil & Gas

Batteries & Energy Storage

Others

#### Major players covered

TETRA Technologies

Halliburton

ICL-IP

Schlumberger

Sigma-Aldrich (Merck)

Chemcon Speciality Chemicals Limited (CSCLP)

Tiger Calcium

Solent Chemicals

Shouguang Xinwanshun Chemical

Shandong Weitai Fine Chemical

MODY CHEMI PHARMA

Weifang Tianfu Chemical Technology

Shouguang Honghai Chemical

Shandong Luyuan Chemical Technology

WEIFANG TAIHEXING CHEMICAL INDUSTRY

Weifang Qiangyuan Chemical Industry

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 Zinc Bromide Solution product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Zinc Bromide Solution, with price, sales, revenue and global market share of Zinc Bromide Solution from 2019 to 2024.

Chapter 3, the Zinc Bromide Solution competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Zinc Bromide Solution breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Pure and application, with sales market share and growth rate by pure, application, from 2019 to 2030.

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 2017 to 2023. and Zinc Bromide Solution market forecast, by regions, pure and application, with sales and revenue, from 2025 to 2030.

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 Zinc Bromide Solution.

Chapter 14 and 15, to describe Zinc Bromide Solution sales channel, distributors,

customers, research findings and conclusion.

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