

Global Cesium Market Research Report 2024(Status and Outlook)

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Abstracts

Report Overview

Caesium (IUPAC spelling) (or cesium in American English) is a chemical element with the symbol Cs and atomic number 55. It is a soft, silvery-golden alkali metal with a melting point of 28.5 °C (83.3 °F), which makes it one of only five elemental metals that are liquid at or near room temperature. Caesium has physical and chemical properties similar to those of rubidium and potassium. It is pyrophoric and reacts with water even at ?116 °C (?177 °F). It is the least electronegative element, with a value of 0.79 on the Pauling scale. It has only one stable isotope, caesium-133. Caesium is mined mostly from pollucite. The element has 40 known isotopes, making it, along with barium and mercury, one of the elements with the most isotopes. Caesium-137, a fission product, is extracted from waste produced by nuclear reactors.

The most common use for caesium compounds is as a drilling fluid. They are also used to make special optical glass, as a catalyst promoter, in vacuum tubes and in radiation monitoring equipment. One of its most important uses is in the 'caesium clock' (atomic clock). Cesium element generally exists in the form of salt in nature. Cesium salt is widely used in chemistry, medicine, petroleum and other fields, and cesium metal is mainly used in the electronic field.

The global Cesium market size is projected to reach US\$ 438.44 Million by 2028, from US\$ 245.64 million in 2021, at a CAGR of 10.46% during 2022-2028. The role of cesium as a catalyst in chemical industry and the applicability of cesium in petroleum exploitation are the core driving force for the development of cesium market in the future. The increasing demand for cesium in oil exploitation is the main trend affecting the growth of cesium market. Petroleum exploration is the main application of cesium. In

the petroleum and natural gas industries, cesium formate aqueous solution or saline solution is widely used as drilling fluid and bit lubricant in petroleum exploration. Cesium formate is produced by treating cesium hydroxide with formic acid. It can be effectively used even under very high downhole temperature and pressure. Therefore, the demand for cesium in the oil and gas industry is increasing due to its applicability. Cesium can also be used as a completion fluid for oil production applications. Cesium formate (saline solution) is often used in such applications due to its proper density and flow characteristics.

In addition to oil and gas drilling, cesium is most widely used as a catalyst. The use of cesium sulfate as a catalyst in sulfuric acid production can significantly reduce SO₂ emissions, thereby reducing the cost of subsequent tail gas treatment. Cesium vanadium catalyst is green and environmentally friendly, with the advantages of high catalytic activity and good balance characteristics. It can still maintain excellent activity under high SO₂ and low O₂ conditions, and can provide higher activity and lower screening loss during long-term operation. With the increase of sulfuric acid production in various countries and the increasingly strict requirements for environmental protection, the market prospect of cesium sulfate in the future will be bright.

Meanwhile, the increasing demand for cesium compounds for cancer treatment, and the gradual promotion of cesium clocks will also become an important driving force for the development of the cesium market.

Segment by Type, the Cesium can be split into Pure Cesium, Cesium Salt, etc. In 2017-2022, Cesium Salt has been the most important market for cesium, and occupies the main market size. In 2021, Cesium Salt's market share has reached 89.68%, much higher than Pure Cesium's 10.32%. In the forecast period of 2022-2028, we speculate that the market size of Cesium Salt will still grow at a higher CAGR of 10.80%.

From the perspective of application scenarios, the main uses of cesium include Chemical Use, Electronic and Telecommunications, Petroleum Exploration, Atomic Clocks, Medical Use and Others. So far, Chemical Use and Petroleum Exploration are the most important uses of cesium, accounting for more than 60% of the total market share. Cesium formate brine is used in the oil and gas production and exploration industries during high temperature drilling. Cesium nitrate is used as a coolant and oxidant in industries such as pyrotechnics. Cesium chloride is used as a chemical reagent in analytical chemical reagents. Other cesium compounds include cesium carbonate, cesium hydroxide, and cesium bromide. During the forecast period, we infer that the market size of Electronic and Telecommunications and Medical Use will

develop at the highest growth rate. Rising R&D activities for the use of cesium in medical applications and growing demand for cesium in the pharmaceutical industry are expected to drive the demand for pharmaceutical-grade cesium compounds.

On basis of geography, the Cesium market is segmented into North America, Europe, Asia-Pacific, South America, Middle East and Africa, etc. In 2021, the Asia-Pacific market has a large number of end-use industries operating, and the region occupies achieved the highest market share, reaching 47.15%. After this, economic development in emerging economies such as China, India, and Indonesia has boosted per capita income due to private and public sector development activities in the region. Moreover, growing awareness of the health insurance industry and relative government support More cancer patients can afford advanced cancer treatments. In addition, the Asia-Pacific market also has a large number of chemical, consumer electronics and 5G communications needs. These factors combined will drive the Asia-Pacific market to maintain the highest CAGR of 12.24% during the forecast period.

At present, the market concentration of the Cesium market is very high, and the CR5 and HHI in 2021 have reached 74.55% and 25.95% respectively. Among them, the leading company, Sinomine Resource Group Co. Ltd, has a monopoly advantage in cesium-rubidium ore resources. Overall, the major players operating in the global cesium market include Sinomine Resource Group Co. Ltd, Albemarle Corporation, Sigma-Aldrich, Ganfeng Lithium Co.,Ltd, Shanghai China Lithium Industrial Co., Ltd., Merck KGaA, Hubei Baijierui Advanced Materials, Noah Chemicals, Island Pyrochemical Industries Corp, Sichuan Brivo Lithium Materials, Loba Chemie Pvt. Ltd. and Nanjing Taiye Chemical Industry.

This report provides a deep insight into the global Cesium market covering all its essential aspects. This ranges from a macro overview of the market to micro details of the market size, competitive landscape, development trend, niche market, key market drivers and challenges, SWOT analysis, value chain analysis, etc.

The analysis helps the reader to shape the competition within the industries and strategies for the competitive environment to enhance the potential profit. Furthermore, it provides a simple framework for evaluating and accessing the position of the business organization. The report structure also focuses on the competitive landscape of the Global Cesium Market, this report introduces in detail the market share, market performance, product situation, operation situation, etc. of the main players, which helps the readers in the industry to identify the main competitors and deeply understand the competition pattern of the market.

In a word, this report is a must-read for industry players, investors, researchers, consultants, business strategists, and all those who have any kind of stake or are planning to foray into the Cesium market in any manner.

Global Cesium Market: Market Segmentation Analysis

The research report includes specific segments by region (country), manufacturers, Type, and Application. Market segmentation creates subsets of a market based on product type, end-user or application, Geographic, and other factors. By understanding the market segments, the decision-maker can leverage this targeting in the product, sales, and marketing strategies. Market segments can power your product development cycles by informing how you create product offerings for different segments.

Key Company

Sinomine Resource Group Co. Ltd

Albemarle Corporation

Sigma-Aldrich

Ganfeng Lithium Co.,Ltd

Shanghai China Lithium Industrial Co., Ltd.

Merck KGaA

Hubei Baijierui Advanced Materials

Noah Chemicals

Island Pyrochemical Industries Corp

Sichuan Brivo Lithium Materials

Loba Chemie Pvt. Ltd.

Nanjing Taiye Chemical Industry

Market Segmentation (by Type)

Pure Cesium

Cesium Salt

Market Segmentation (by Application)

Chemical Use

Electronic and Telecommunications

Petroleum Exploration

Atomic Clocks

Medical Use

Others

Geographic Segmentation

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study

Neutral perspective on the market performance

Recent industry trends and developments

Competitive landscape & strategies of key players

Potential & niche segments and regions exhibiting promising growth covered

Historical, current, and projected market size, in terms of value

In-depth analysis of the Cesium Market

Overview of the regional outlook of the Cesium Market:

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value (USD Billion) data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Cesium Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the

market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 10 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 11 provides a quantitative analysis of the market size and development potential of each market segment (product type and application) in the next five years.

Chapter 12 is the main points and conclusions of the report.

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