

Global Beryllium 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 Beryllium market size was valued at USD 1130.9 million in 2023 and is forecast to a readjusted size of USD 1185 million by 2030 with a CAGR of 0.7% during review period.

Beryllium is a lightweight metallic element used in a wide variety of specialty and industrial applications. As a function of its unique chemical and physical properties, such as a high stiffness-toweight ratio, resistance to temperature extremes, and high thermal conductivity, beryllium cannot be easily replaced by substitute materials in applications where combinations of these properties make it the material of choice. Because the number of beryllium producers is limited and the use of substitute materials in specific defense-related applications that are vital to national security is inadequate, several studies have categorized beryllium as a critical and strategic material. This categorization has led to the United States Government recommending that beryllium be stockpiled for use in the event of a national emergency.

The extraction of beryllium from its main source's beryl and bertrandite involves several stages. After mining the ores, they are first converted to an acid-soluble form. To obtain comparatively pure beryllium hydroxide or oxide, and in a further step beryllium chloride or fluoride, complex chemical processes are used. These halogenides are then reduced to metallic beryllium with other metals or by melt electrolysis. The beryllium metal obtained is subject to one or more refining processes and finally to further treatment.

More specifically, three different metallurgical routes are followed according to the final product to be produced: metallic beryllium, beryllium oxide and beryllium into alloy. In case of metallic beryllium powder production, the procedure comprises the dissolving of Be(OH)2, BeO, and/or beryllium scrap in ammonium bifluoride to form an ammonium



beryllium fluoride (ABF) solution [(NH4)2BeF4]. This solution is then purified, evaporated, and crystallized to form ABF salt. In the pebbles plant, the ABF salt is fed into a fluoride furnace and heated to form glassy beryllium fluoride (BeF2). Subsequently, BeF2 is reduced with magnesium in a reduction furnace resulting in metallic beryllium pebbles within a magnesium fluoride (MgF2) matrix.

Beryllium industry in US is fully looped comprising: mining, ore processing, manufacture, sale and recycling of beryllium-bearing products. Japan does not extract beryllium ores but refine it from imports. Kazakshstan refines its beryllium from stockpiled ores and will most likely to continue to do so in the future.

Annual worldwide production of refined beryllium (in alloys, metal or ceramics) in 2021 is estimated at 256 tonnes. The global produced amount of metallic beryllium since 2000 is shown in Figure 18. As in case of beryllium concentrate, USA and China are main producers of refined beryllium (66% and 27% of the global amount in 2021). A minor beryllium production, less than 3% of the global, is taking place in Uganda.

Global Beryllium key players include Materion, NGK Metals, Kazatomprom, CNMC NingXia Orient Group and Fuyun Hengsheng. Global top four manufacturers hold a share over 95%.

North America is the largest market, with a share about 58%, followed by Europe and China, both have a share over 10%.

In terms of product type, Beryllium Copper Alloys is the largest segment, with a share over 75%. And in terms of application, the largest application is Aerospace and Defense, followed by Industrial and Automotive.

The Global Info Research report includes an overview of the development of the Beryllium industry chain, the market status of Industrial (Beryllium Copper Alloys, Beryllium Metal), Aerospace and Defense (Beryllium Copper Alloys, Beryllium Metal), and key enterprises in developed and developing market, and analysed the cuttingedge technology, patent, hot applications and market trends of Beryllium.

Regionally, the report analyzes the Beryllium 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 Beryllium market, with robust domestic demand, supportive policies, and a strong manufacturing base.



Key Features:

The report presents comprehensive understanding of the Beryllium 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 Beryllium 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 (MT), revenue generated, and market share of different by Type (e.g., Beryllium Copper Alloys, Beryllium Metal).

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 Beryllium market.

Regional Analysis: The report involves examining the Beryllium 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 Beryllium market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Beryllium:

Company Analysis: Report covers individual Beryllium 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 Beryllium This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Industrial, Aerospace and Defense).



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

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Beryllium 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

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

Market segment by Type

Beryllium Copper Alloys

Beryllium Metal

Beryllium Oxide

Others

Market segment by Application

Industrial

Aerospace and Defense

Automotive

Telecom and Data Center



Energy

Consumer Electronics

Semiconductor

Others

Major players covered

Materion

NGK Metals

Kazatomprom

Belmont Metals

American Elements

IBC Advanced Alloys

American Beryllia Inc.

China Minmetals

CNMC NingXia Orient Group

Fuyun Hengsheng

Emeishan Zhongshan

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 Beryllium product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Beryllium 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 Type and application, with sales market share and growth rate by type, 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 Beryllium market forecast, by regions, type 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 Beryllium.

Chapter 14 and 15, to describe Beryllium sales channel, distributors, customers, research findings and conclusion.



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