

Global Beryllium Supply, Demand and Key Producers, 2023-2029

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Abstracts

The global Beryllium market size is expected to reach \$ 1185 million by 2029, rising at a market growth of 0.7% CAGR during the forecast period (2023-2029).

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.

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-to-weight 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 $\text{Be}(\text{OH})_2$, BeO , and/or beryllium scrap in ammonium bifluoride to form an ammonium beryllium fluoride (ABF) solution $[(\text{NH}_4)_2\text{BeF}_4]$. 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 (BeF_2). Subsequently, BeF_2 is reduced with magnesium in a reduction furnace resulting in metallic beryllium pebbles within a magnesium fluoride (MgF_2) 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. Kazakhstan 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.

This report studies the global Beryllium production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Beryllium, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of Beryllium that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Beryllium total production and demand, 2018-2029, (MT)

Global Beryllium total production value, 2018-2029, (USD Million)

Global Beryllium production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (MT)

Global Beryllium consumption by region & country, CAGR, 2018-2029 & (MT)

U.S. VS China: Beryllium domestic production, consumption, key domestic manufacturers and share

Global Beryllium production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (MT)

Global Beryllium production by Type, production, value, CAGR, 2018-2029, (USD Million) & (MT)

Global Beryllium production by Application production, value, CAGR, 2018-2029, (USD Million) & (MT).

This reports profiles key players in the global Beryllium 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 Materion, NGK Metals, Kazatomprom, Belmont Metals, American Elements, IBC Advanced Alloys, American Beryllia Inc., China Minmetals and CNMC NingXia Orient Group, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Beryllium market.

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (MT) and average price (US\$/KG) by manufacturer, by Type, and by Application. Data is given for the years 2018-2029 by

year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global Beryllium Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Beryllium Market, Segmentation by Type

Beryllium Copper Alloys

Beryllium Metal

Beryllium Oxide

Others

Global Beryllium Market, Segmentation by Application

Industrial

Aerospace and Defense

Automotive

Telecom and Data Center

Energy

Consumer Electronics

Semiconductor

Others

Companies Profiled:

Materion

NGK Metals

Kazatomprom

Belmont Metals

American Elements

IBC Advanced Alloys

American Beryllia Inc.

China Minmetals

CNMC NingXia Orient Group

Fuyun Hengsheng

Emeishan Zhongshan

Key Questions Answered

1. How big is the global Beryllium market?
2. What is the demand of the global Beryllium market?
3. What is the year over year growth of the global Beryllium market?
4. What is the production and production value of the global Beryllium market?
5. Who are the key producers in the global Beryllium market?
6. What are the growth factors driving the market demand?

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