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Beryllium - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)

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Report description:

The Beryllium Market size is estimated at 337.26 tons in 2025, and is expected to reach 405.03 tons by 2030, at a CAGR of 3.73% during the forecast period (2025-2030).

The beryllium market faced setbacks due to COVID-19. Global lockdowns and stringent government regulations led to widespread shutdowns of production hubs. However, the market rebounded in 2021, and it is estimated to witness significant growth in the upcoming years.

Key Highlights
- Over the short term, the growing demand from electronics and telecommunication infrastructure and extensive usage of beryllium alloys in aerospace and military applications drive the market's demand.
- However, competition from potential alternatives is expected to hinder the market's growth.
- Nevertheless, future demand for beryllium oxide in nuclear power generation and emerging applications of beryllium mirrors are expected to create new opportunities for the market studied.
- North America is expected to dominate the global market, with the majority of demand coming from the United States and Canada.

Beryllium Market Trends

Electronics and Telecommunications Segment to Dominate the Market

- Consumer electronics and telecommunications stand out as key end-user industries for beryllium. Beryllium is predominantly alloyed with copper in these applications, forming copper-beryllium alloys. These alloys find their way into various products, including cables, high-definition televisions, electrical contacts, cell phone and computer connectors, computer chip heat sinks, underwater fiber optic cables, sockets, thermostats, and bellows.
- Beryllium's excellent thermal conductivity enhances heat dissipation, mitigating overheating risks and bolstering the reliability of electronic components.
- As electronic components like sensors, antennas, capacitors, and resistors shrink and gain capabilities, beryllium's significance in this evolving landscape becomes even more pronounced.
- The electronics industry is one of the world's largest and fastest growing. In the current digital era, electronic items significantly impact people's lives. The demand for electronic gadgets is projected to rise continuously and remain a significant economic driver globally.
- As per data from the Japan Electronics and Information Technology Industries Association (JEITA), the global electronics and IT industry saw a 3% year-over-year decline in 2023, totaling USD 3,382.6 billion. However, a rebound is anticipated, with projections of a 9% growth in 2024, reaching USD 3,686.8 billion.
- India is the second largest smartphone producer after China. As per Invest India, the country aims to manufacture cell phones worth USD 126 billion by 2025-26. Globally, the demand for smartphones is increasing at a significant rate. According to the Telefonaktiebolaget LM Ericsson, the subscription is likely to reach 7,690 million by 2027, enhancing the usage of the market studied from electronics applications.
- In the United States, swift technological advancements and robust R&D activities fuel a demand for cutting-edge electronic products. The industry is witnessing continuous and significant progress. The Consumer Technology Association reports that retail revenue from US consumer electronics sales reached an impressive USD 485 billion in 2023, with projections for 2024 set at USD 512 billion.
- Germany boasts the largest electronics industry in Europe. Data from the Germany Electrical and Electronics Association (ZVEI) indicates that the sector achieved an aggregated turnover of EUR 238.1 billion (approximately USD 258.06 billion) in 2023. Key drivers for the global household appliances market include technological advancements, rapid urbanization, a booming housing sector, rising per capita income, enhanced living standards, a growing emphasis on comfort in household chores, evolving consumer lifestyles, and an increasing number of smaller households.
- Given these dynamics, the demand for electronics and telecommunications is set to rise, subsequently fueling the demand for beryllium.

North America to Dominate the Market

- North America is poised to lead the beryllium market, emerging as the region with the fastest growth during the forecast period. This surge is primarily fueled by increasing demands across various sectors, including automotive, healthcare, aerospace and defense, oil and gas, and electronics and telecommunications, particularly in the United States and Canada.
- As per the US Geological Survey, the United States was the world's largest beryllium mine producer, with production amounting to 190 metric tons in 2023, growing from 175 tons in 2022.
- About 60% of beryllium resources are in the United States, mainly in the Spor Mountain area in Utah, where the epithermal deposit contains a large bertrandite source. Proven and probable bertrandite reserves in Utah are estimated at about 20,000 tons of contained beryllium.
- Beryllium is used in the automotive industry due to its high thermal conductivity, strength, and resistance to corrosion, making it an ideal material for various applications, including brake discs, ignition switches, airbag sensors, powertrain components, and electrical components. As vehicle production rises in the region, the demand for beryllium is expected to bolster.
- The United States boasts the world's second-largest automotive industry, trailing only China, and plays a pivotal role in regional

and global markets. Data from the Organisation Internationale des Constructeurs Automobiles (OICA) indicates that the US automotive production reached 10,611,555 units in 2023, marking a 5.56% increase from 2022, bolstering the demand for beryllium.

- As reported by the Automotive Industries Association of Canada, the automotive sector contributes over USD 19 billion to Canada's GDP. Projections suggest this contribution will rise to USD 40.1 billion in 2024, presenting growth opportunities for the beryllium market. OICA data shows Canada produced 1,553,026 vehicles in 2023, a 25.92% increase from the prior year.
- Beryllium's high thermal conductivity and exceptional strength-to-weight ratio render it crucial in aerospace and defense. It is employed in high-speed aircraft, missiles, and rocket engine nozzles. With the aerospace and defense sector expanding in the region, the demand for beryllium is set to rise.
- The United States has the largest aviation market in North America and boasts one of the world's most extensive fleet sizes. Strong exports of aerospace components to nations like France, China, and Germany are propelling the industry's manufacturing activities, positively influencing the beryllium market.
- According to the Federal Aviation Administration (FAA), boosted by the sharp recovery in demand for air travel and cargo, the number of aircraft in the commercial fleet grew by 0.2% in 2022-23. Additionally, US airline enplanements are estimated to grow 2.4% per year over the next 20 years to USD 1.32 trillion in 2044 compared to USD 922 billion in 2023, and projects the US mainline jet fleet to grow from 4,832 in 2023 to 6,894 in 2044.
- In electronics, beryllium's high thermal conductivity and non-magnetic properties are essential for electrical contacts, semiconductors, and telecommunications. As the electronics sector grows in the region, the demand for beryllium is expected to grow in the coming years.
- The US electronics sector is on a moderate growth trajectory, driven by a surge in demand for advanced technological products and rapid innovation spurred by robust R&D activities.
- The Department of Energy (DOE), in April 2024, announced plans to invest up to USD 331 million in a new transmission line, prioritizing union labor, under President Biden's Bipartisan Infrastructure Law. Additionally, the administration is leading an initiative by collaborating with public and private sector leaders to enhance the nation's transmission network, aiming to upgrade 100,000 miles of transmission lines in the next five years.
- With its high strength and conductivity, beryllium finds applications in the oil and gas sector, from down-hole tubing to compressors and generators. With the expanding oil and gas sector in the region, the demand for beryllium is set to rise in the coming years.
- Statistique Canada reports that Canada's crude oil production rose for the third consecutive year in 2023, hitting 286.4 million cubic meters, a 1.4% increase from the previous year. Moreover, with projections from the Canadian Association of Energy Contractors anticipating 6,229 wells to be drilled in 2024, up 481 from 2023, it is evident that oil sand producers are in an expansion phase.
- Given these dynamics, North America is poised for a surge in beryllium demand during the forecast period.

Beryllium Industry Segmentation

The beryllium market is highly consolidated. The major players include Materion Corporation, Ulba Metallurgical Plant (Kazatomprom), Hunan Shuikoushan Nonferrous Metals Group Co. Ltd, IBC Advanced Alloys, and Xinjiang Xinxin Mining Industry Co. Ltd.

Additional Benefits:

- The market estimate (ME) sheet in Excel format
- 3 months of analyst support

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