

Global Cadmium Market Outlook to 2027

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Abstracts

Cadmium (Cd) is a soft, silvery-white metal with an atomic number 48, chemically similar to Zinc and Mercury. According to BlueQuark Research & Consulting, the Global Cadmium market is expected to witness a significant growth rate during the forecasted period. Cadmium is the primary material used in Ni-Cd batteries' negative electrodes owing to the high reliability of batteries, able to tolerate severe mechanical and electrical abuse, and function with minimal performance loss at low as well as high temperatures, and in environments with broad temperature changes is estimated to drive the Global Cadmium market. In addition to this, Cadmium coatings are used for steel, aluminum, and some other non-ferrous metal fasteners and moving parts to achieve the best available combination of corrosion resistance, particularly in salt and alkali media, and lubricity or low coefficient of friction, and they are also employed for electronic appliances due to corrosion resistance, and low electrical resistivity is expected to drive the Global Cadmium market. Further, stabilizers bearing Cadmium are organic cadmium salts, usually carboxylates like cadmium laurate or cadmium stearate that slow down the degradation of polyvinylchloride (PVC) caused by heat and ultraviolet lights and that are incorporated into PVC before processing and stop any degradation reactions during subsequent processing, ensuring a long service life is projected to drive the Global Cadmium market. However, the availability of efficient and less toxic alternatives, strict government regulations on cadmium content in electronics, and high levels of cadmium exposure linked to cardiovascular disease and Type II diabetes mellitus are expected to stymie the global Cadmium market's growth.

Alloys made from Cadmium are used when electrical conductivity or heat conductivity is required in combination with abrasion resistance, corrosion resistance, or strength and Photovoltaic technology, which relies on a thin film of CdTe to absorb and convert sunlight into electricity, is gaining popularity and is now the world's second most widely used solar cell material.

The battery manufacturing industry is the prime consumer of Cadmium and is expected to drive the Global Cadmium market. Cadmium possesses several chemical and physical qualities that make it ideal for industrial and consumer uses, including corrosion and chemical resistance, high-temperature tolerance, a low melting point, and good electrical conductivity and Cadmium's characteristics make it ideal for rechargeable nickel-cadmium (Ni-Cd) batteries, which are the most common use. In addition to this, thousands of primary non-rechargeable batteries can be replaced by rechargeable Ni-Cd batteries to reduce the total amount of waste as the material of Ni-Cd batteries can be more than 99% recovered for reuse in the production of new Ni-Cd batteries. Further, with over 70% of the market, Ni-Cd batteries are the preferred backup power source for civilian and military aircraft and they provide power to avionics systems in a power outage and ensure engine start-up on the ground. Under extreme weather conditions, industrial Ni-Cd batteries are often employed to supply backup power for railways and metro systems and trackside signaling equipment and used to protect industrial assets or human life in other mission-critical locations, including nuclear power plants, offshore oil rigs, and refineries.

Some of the market's key players are Korea Zinc Co., Ltd., Nyrstar NV, Teck Resources Limited, Young Poong Co., Ltd., Mitsui Mining and Smelting Co., Ltd., Dowa Metals and Mining Co., Ltd., and Grupo Mexico, among others.

The Asia Pacific region is poised to be the leader in the production and the subsequent consumption of Cadmium, with most of the consumption in countries like China and India. Most of the world's primary cadmium metal is produced in Asia, with China and the Republic of Korea leading the way, followed by Japan in descending order of output. A small amount of secondary cadmium metal is recovered from recycling NiCd batteries. In India, a large primary cadmium facility with a capacity of 2,600 tons per year is under construction. Further, in 2020, a new usage for Cadmium was being developed with ultra-precise cadmium-based optical lattice clocks that could run at ambient temperature rather than the cryogenic cooling required by present clocks. In addition to this, China is the leading producer and imports substantial Cadmium as demand outpaces the domestic supply. The Republic of Korea, Kazakhstan, Japan, and Peru are the significant suppliers of Cadmium to China. Factors like these have made Asia-Pacific an essential region for growth in the Cadmium market.

Global Cadmium Market report provides deep insight into the market's current and future state across various regions. The study comprehensively analyses the Cadmium market by segmenting based on the type (Primary Cadmium, Secondary Cadmium), Grade (Agricultural Grade, Industrial Grade, Electronic Grade, Food Grade, Others),

Application (NiCd Batteries, Pigments, Coatings, Alloys, Others), and Geography (Asia-Pacific, North America, Europe, South America, and Middle-East and Africa). The report examines the market drivers and restraints and the impact of Covid-19 on the market growth in detail. The study covers and includes emerging market trends, developments, opportunities, and challenges in the industry. This report also covers extensively researched competitive landscape sections with prominent companies and profiles, including their market shares and projects.

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