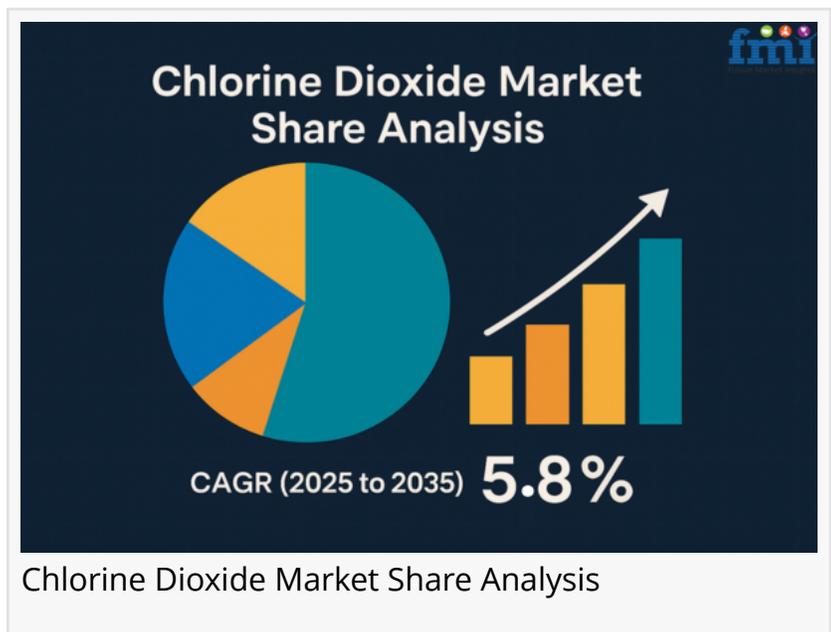


Chlorine Dioxide Market Share Analysis: Robust Growth Driven by Expanding Industrial and Municipal Applications

North America chlorine dioxide market grows as EPA enforces strict water disinfection standards, boosting demand in municipal water treatment systems.

NEWARK, DE, UNITED STATES, June 6, 2025 /EINPresswire.com/ -- The [chlorine dioxide market share analysis](#) is witnessing significant growth, driven by its extensive application in water treatment, disinfection, and various industrial processes. The market is projected to expand at a CAGR of 5.8%, with its valuation expected to reach USD 1.7 billion by 2035, reflecting its growing importance in ensuring public health and industrial efficiency.



As environmental regulations tighten and the demand for efficient, eco-friendly disinfectants rises, chlorine dioxide is emerging as a preferred choice, positioning the market for sustained expansion over the coming decade.

“

Chlorine dioxide’s versatile applications and eco-friendly profile drive strong market growth, fueled by stricter regulations and rising demand in water treatment and industrial sectors worldwide.”

Nikhil Kaitwade

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Rising Demand in Water Treatment Sector

One of the primary growth drivers for the chlorine dioxide market is its widespread use in water treatment. Municipal water treatment plants and industrial wastewater management systems are progressively adopting chlorine

dioxide for its superior disinfectant properties. Compared to traditional chlorine, chlorine

dioxide offers enhanced efficiency in killing bacteria, viruses, and other harmful pathogens without producing harmful chlorinated by-products. This has led to increasing acceptance by regulatory bodies globally, particularly in North America and Europe, where stringent water safety standards are enforced.

The versatility of chlorine dioxide as a disinfectant extends beyond potable water treatment to cooling towers, industrial process water, and wastewater treatment plants. Its ability to control biofilm and reduce scaling makes it an invaluable chemical in maintaining water system integrity and efficiency. As industries strive to minimize downtime and maintain compliance with environmental regulations, chlorine dioxide's application in industrial water treatment continues to grow significantly.

Expanding Applications in Pulp and Paper Industry

The pulp and paper industry is another major sector driving chlorine dioxide consumption. It is extensively used in bleaching processes as an alternative to elemental chlorine, enabling the production of higher quality, environmentally friendly paper products. Chlorine dioxide reduces the formation of harmful dioxins and other chlorinated organic compounds, helping manufacturers meet environmental standards while maintaining product quality.

With the global demand for paper products steadily increasing due to population growth and rising literacy rates, particularly in emerging economies, the demand for chlorine dioxide in pulp and paper bleaching is expected to rise. The industry's shift toward sustainable and eco-conscious manufacturing practices further supports the adoption of chlorine dioxide-based bleaching agents.

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Market Share Insights and Regional Dynamics

North America currently holds a significant share of the chlorine dioxide market, attributed to advanced water treatment infrastructure, stringent environmental regulations, and increasing industrial applications. The U.S. Environmental Protection Agency's (EPA) regulations on drinking water quality and wastewater discharge strongly favor chlorine dioxide usage, prompting municipal and industrial customers to adopt this chemical widely.

Europe also commands a notable market share, driven by the European Union's rigorous environmental policies and the region's strong industrial base. Countries such as Germany, France, and the U.K. are investing heavily in upgrading water treatment facilities and adopting greener technologies, contributing to chlorine dioxide demand.

Asia-Pacific is witnessing rapid market growth, propelled by increasing industrialization,

urbanization, and rising awareness of water safety and hygiene. Countries like China, India, and Japan are investing extensively in municipal water treatment and industrial wastewater management, opening vast opportunities for chlorine dioxide suppliers. The region's expanding pulp and paper manufacturing sector further fuels demand.

Other regions, including Latin America and the Middle East & Africa, are gradually increasing their chlorine dioxide consumption as infrastructure development and industrial activities accelerate. These markets present promising growth potential due to improving regulatory frameworks and growing environmental concerns.

Key Companies in the Chlorine Dioxide Market

- Evoqua Water Technologies
- Ecolab Inc.
- DuPont
- ProMinent GmbH
- Grundfos

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Chlorine Dioxide Market Segmentation

By End-Use:

- Water Treatment
- Food & Beverage
- Pulp & Paper
- Oil & Gas
- Others

By Region:

- Asia-Pacific
- Europe
- North America
- Rest of the World

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