

# **Chlorine Dioxide Global Market Insights 2025, Analysis and Forecast to 2030, by Manufacturers, Regions, Technology, Application**

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## **Abstracts**

### **Chlorine Dioxide Market Review 2025**

#### **Overview**

The Chlorine Dioxide market is experiencing significant growth, driven by increased applications across various industries, especially in water treatment and food processing. As a versatile and potent disinfectant, chlorine dioxide serves as an essential chemical in maintaining cleanliness and safety in diverse sectors. Its effectiveness and lower environmental impact compared to conventional chlorine derivatives are pivotal factors leading to its rising adoption.

#### **Market Size**

The global chlorine dioxide market size was valued at approximately USD 1.5 billion in 2020 and is projected to reach around USD 2 billion by 2030, growing at a compound annual growth rate (CAGR) of around 4.5%. This steady growth reflects increased awareness regarding water quality and safety protocols across various industries.

#### **Share & Trends Analysis Report**

#### **By Product Type**

In the chlorine dioxide market, the product type segment comprises sodium chlorite, chlorine dioxide gas, and other derivatives. Currently, sodium chlorite holds the largest market share, accounting for about 60% of the overall market due to its extensive use in water treatment and pulp bleaching applications. The chlorine dioxide gas segment is expected to grow at a CAGR of around 5% from 2025 to 2030.

### By Key Players

Key players dominating the chlorine dioxide market include:

Kemira  
Nouryon  
Taiwan Clean  
Tuanqi Biotech  
Shandong Guanlong  
Jieyuan Biochemistry  
Shuandong Huashi  
Dongying Shengya

These companies are focusing on product innovations and expanding their manufacturing capabilities to cater to the growing demand.

### By Process

The processes for producing chlorine dioxide include the chlorine-chlorite method and sodium chlorite oxidation. The sodium chlorite oxidation process dominates the market, accounting for approximately 75% of the production methods due to its increasing usage in large-scale water treatment facilities.

### By Application

The major applications of chlorine dioxide include:

**Pulp Bleaching:** Chlorine dioxide is extensively used in the pulp and paper industry for its effective bleaching properties. This segment is expected to show a growth rate of about 4% from 2025 to 2030.

**Water Treatment:** The largest application segment, accounting for over 45% of the global market share, is expected to grow significantly due to stringent regulations concerning water quality and safety.

**Food Processing:** Increasing demand for sanitary food processing environments is projected to enhance this segment's growth, estimated to rise at a CAGR of 3.8%.

**Medical & Healthcare:** The healthcare sectors demand for sterilization and disinfection solutions is expected to promote a growth rate of around 5%.

### By End-Use

The end-use markets for chlorine dioxide include residential, commercial, and industrial sectors. The industrial segment has the highest volume of chlorine dioxide usage,

primarily driven by water treatment needs in several industries, including oil & gas and mining. The segment's growth rate is projected at approximately 4.2% from 2025 to 2030.

### By Region

The regional analysis of the chlorine dioxide market indicates significant growth in North America, Europe, Asia Pacific, Latin America, and the Middle East & Africa. North America currently holds the largest market share of approximately 35% owing to stringent water quality regulations. The Asia Pacific region is expected to exhibit the highest growth rate, projected at around 5.5% during the forecast period, fueled by industrialization and rising awareness of waterborne diseases.

### Market News on Policy and Companies

Governments worldwide are implementing policies aimed at improving water quality, especially in regions with limited access to clean water. Additionally, companies are increasingly focusing on sustainable production methods, which is anticipated to drive chlorine dioxide demand. Major players are also investing in research and development to create more efficient chlorine dioxide generation methods and formulations to leverage market growth. Recent strategic mergers in the industry, such as Nouryon's acquisition of a local chemical manufacturer in Asia, signal an ongoing trend towards consolidation to enhance market presence.

### Segment Forecasts 2025 - 2030

The future trends forecast in the chlorine dioxide market indicate sustained robust growth across key segments. The water treatment and medical sectors will be pivotal drivers, with both sectors anticipated to grow at over 5% CAGR through 2030. With increasing governmental and regulatory pressures for cleaner and safer environments, chlorine dioxide's role as a preferred disinfectant and bleaching agent will likely solidify it as a crucial component in ongoing market dynamics.

### Conclusion

In summary, the chlorine dioxide market is set for steady growth, underpinned by rising applications in various industries and increasing awareness of public health standards. With significant investments from key players and a push towards sustainable practices, the market is poised to meet the evolving demands of its end-users efficiently.

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