

Chlorine Dioxide Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 - 2034

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Abstracts

The Global Chlorine Dioxide Market was valued at USD 1.1 billion in 2024 and is projected to experience robust growth at a CAGR of 5.8% from 2025 to 2034. This growth is primarily driven by its essential role across several industries, including water treatment, healthcare, food processing, and pulp and paper. As one of the most effective disinfectants, chlorine dioxide stands out for its ability to target a wide range of microorganisms without generating harmful byproducts like trihalomethanes (THMs), making it a safer alternative to other disinfectants, especially in water purification.

The increasing demand for efficient, eco-friendly water treatment solutions is creating an expanding market for chlorine dioxide. As industries and municipalities continue to focus on sustainable practices, the need for environmentally safe, highly effective disinfectants has surged. Chlorine dioxide's versatility as an oxidizing agent and biocide enables it to combat bacteria, viruses, and fungi in a wide variety of applications, positioning it as a key player in industries that prioritize hygiene and safety. Furthermore, chlorine dioxide's non-toxic byproducts, low environmental impact, and ability to function across a broad pH range make it a preferred choice for global water purification processes.

The chlorine dioxide market is diverse, with key applications spanning industrial water treatment, food and beverages, medical fields, pulp and paper processing, oil and gas, oral care, aerospace, and eye care, alongside other niches like textiles and agriculture. Industrial water treatment is the leading segment, generating USD 503.1 million in 2024. This sector is set to grow rapidly as industries increasingly focus on water purification to meet safety standards and ensure the sustainability of their operations.

Market growth is also propelled by the different forms of chlorine dioxide available,

including gas, liquid, and solid. The gas form of chlorine dioxide, which holds a dominant share of 42.9% in 2024, is particularly favored for municipal water treatment, industrial wastewater purification, and food processing sanitation. Its effectiveness as a biocide in various conditions, combined with its environmentally friendly nature, positions it as the go-to solution for disinfecting processes.

Chlorine dioxide's broad applicability, combined with rising industrialization, urbanization, and sustainability initiatives, ensures that demand for this compound will continue to grow across the globe. As regulations aimed at improving water safety and reducing chemical exposure become more stringent, industries are turning to chlorine dioxide as a safer, more efficient alternative to traditional chemicals.

The chlorine dioxide market, particularly in North America, benefits from a shift toward greener industrial practices, as well as substantial investments in municipal water treatment infrastructure and research aimed at improving efficiency and reducing the chlorine dioxide generation cost.

Contents

CHAPTER 1 METHODOLOGY & SCOPE

- 1.1 Market scope & definitions
- 1.2 Base estimates & calculations
- 1.3 Forecast calculations
- 1.4 Data sources
 - 1.4.1 Primary
 - 1.4.2 Secondary
 - 1.4.2.1 Paid sources
 - 1.4.2.2 Public sources

CHAPTER 2 EXECUTIVE SUMMARY

- 2.1 Industry synopsis, 2021-2034

CHAPTER 3 INDUSTRY INSIGHTS

- 3.1 Industry ecosystem analysis
 - 3.1.1 Factor affecting the value chain
 - 3.1.2 Profit margin analysis
 - 3.1.3 Disruptions
 - 3.1.4 Future outlook
 - 3.1.5 Manufacturers
 - 3.1.6 Distributors
- 3.2 Supplier landscape
- 3.3 Profit margin analysis
- 3.4 Key news & initiatives
- 3.5 Regulatory landscape
- 3.6 Impact forces
 - 3.6.1 Growth drivers
 - 3.6.1.1 Rising demand for safe drinking water
 - 3.6.1.2 Rapid growth in the food & beverage industry
 - 3.6.1.3 Growing concerns regarding water pollution and increasing trend of wastewater recycling
 - 3.6.2 Industry pitfalls & challenges
 - 3.6.2.1 Price volatility of raw material
 - 3.6.2.2 Stringent environmental norms

3.7 Growth potential analysis

3.8 Porter's analysis

3.9 PESTEL analysis

CHAPTER 4 COMPETITIVE LANDSCAPE, 2024

4.1 Introduction

4.2 Company market share analysis

4.3 Competitive positioning matrix

4.4 Strategic outlook matrix

CHAPTER 5 MARKET ESTIMATES & FORECAST, BY APPLICATION, 2021-2034 (USD BILLION) (KILO TONS)

5.1 Key trends

5.2 Food & beverage

5.2.1 Meat disinfection

5.2.2 Fruits & vegetables disinfection

5.2.3 Canning, brewing & bottling disinfection

5.2.4 Other (seafood processing, baking industry)

5.3 Medical

5.4 Pulp & paper processing

5.5 Industrial water treatment

5.6 Oil & gas

5.6.1 Fracking

5.6.2 Other (pipeline disinfection, cooling water treatment)

5.7 Oral care

5.8 Eyecare

5.9 Aerospace

5.9.1 Toilet disinfection

5.9.2 Airline water systems

5.10 Others (textile and agricultural)

CHAPTER 6 MARKET ESTIMATES & FORECAST, BY FORM, 2021-2034 (USD BILLION) (KILO TONS)

6.1 Key trends

6.1.1 Gas

6.1.2 Liquid

6.1.3 Solid

CHAPTER 7 MARKET ESTIMATES & FORECAST, BY REGION, 2021-2034 (USD BILLION) (KILO TONS)

7.1 Key trends

7.2 North America

7.2.1 U.S.

7.2.2 Canada

7.3 Europe

7.3.1 UK

7.3.2 Germany

7.3.3 France

7.3.4 Italy

7.3.5 Spain

7.3.6 Russia

7.4 Asia Pacific

7.4.1 China

7.4.2 India

7.4.3 Japan

7.4.4 South Korea

7.4.5 Australia

7.5 Latin America

7.5.1 Brazil

7.5.2 Mexico

7.6 MEA

7.6.1 South Africa

7.6.2 Saudi Arabia

7.6.3 UAE

CHAPTER 8 COMPANY PROFILES

8.1 Accepta

8.2 Bio-Cide International

8.3 CDG Environmental

8.4 Dioxide Pacific

8.5 Ecolab

8.6 Evoqua

8.7 Grundfos

8.8 HES Water Engineers (India)

8.9 Iotronic Elektrogerätebau

8.10 ProMinent

8.11 Scotmas

8.12 Superior Plus

8.13 Tecme Srl

8.14 The Sabre Companies

8.15 Vasu Chemicals

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