

# **Hydrogen Peroxide Market Report by Application (Chemical Synthesis, Bleaching, Disinfectant, Cleaning and Etching, and Others), End-Use (Pulp and Paper, Food and Beverages, Water Treatment, Textiles and Laundry, Oil and Gas, Healthcare, Electronics, and Others), and Region 2024-2032**

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## **Abstracts**

The global hydrogen peroxide market size reached US\$ 3.3 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 4.5 Billion by 2032, exhibiting a growth rate (CAGR) of 3.3% during 2024-2032. The growing use in bleach products, rising application in several water treatment applications, and increasing demand in the agriculture industry to improve crop yield represent some of the key factors driving the market.

### **Rising Application in Various Medical Purposes Propelling Market Growth**

The growing demand for hydrogen peroxide as a mild antiseptic used to prevent infection of minor cuts, scrapes, and burns is positively influencing the market. It may also be used as a mouth rinse to help remove mucus or to relieve minor mouth irritation due to canker or cold sores and gingivitis. This product works by releasing oxygen when it is applied to the affected area and causes foaming, which helps remove dead skin and clean the area. It also aids in healing wounds due to its volatile nature, which causes rapid oxidation. Apart from this, hydrogen peroxide is used in medical applications, such as treating acquired immune deficiency syndrome (AIDS), cancer, influenza, and emphysema.

Competitive analysis such as market structure, market share by key players, player

positioning, top winning strategies, competitive dashboard, and company evaluation quadrant has been covered in the report. Also, detailed profiles of all major companies have been provided. The market structure is fragmented with large number of players operating in the industry. The volume of new entrants is moderate in the hydrogen peroxide industry due to rising demand from end use industry and low product differentiation. However, high capital investment and strict regulatory framework prevent new players to enter the business.

### What is Hydrogen Peroxide?

Hydrogen peroxide (H<sub>2</sub>O<sub>2</sub>) is a pale blue chemical compound with clear liquid, which is more viscous as compared to water. It is unstable in nature, due to which it is usually stored in a weak acidic solution with a stabilizer. It has strong oxidizing properties, thereby making it a powerful bleaching agent, which is largely used for bleaching paper. H<sub>2</sub>O<sub>2</sub> in the form of carbamide peroxide also has applications for tooth whitening in professionally and self-administered products. In addition, it plays important roles in host defense and oxidative biosynthetic reactions in the human body. As it is used as a disinfectant and as an oxidizer, H<sub>2</sub>O<sub>2</sub> finds applications in the paper and pulp, chemical, pharmaceutical, personal care and cosmetics, electronics, and agriculture industries across the globe.

### COVID-19 Impact:

The COVID-19 pandemic outbreak has caused a severe problem for the hydrogen peroxide industry and imposed unprecedented challenges on numerous countries. Owing to the global lockdowns and in compliance with directives from the government, many chemical production plants have slowed down their manufacturing operations. The industry was vulnerable, given that the bulk of its production workforce was in on-site jobs that could not be done remotely. Moreover, few running plants were burdened with supply disruptions from the raw materials industry, labor shortages, and low stocks. Besides this, restrictions on shipping and industrial production have affected the supply chain. In addition, companies have slowed down production due to logistics issues, staffing shortages, lack of drivers, and roadblocks. These factors have slowed down the growth of the hydrogen peroxide industry during the pandemic.

### Hydrogen Peroxide Market Trends:

At present, there is a rise in the demand for H<sub>2</sub>O<sub>2</sub> in bleach products for removing chlorine compounds through bleaching processes. This, along with the increasing

utilization of H<sub>2</sub>O<sub>2</sub> as an oxidizing agent for several water treatment applications, represents one of the key factors supporting the growth of the market. In addition, there is an increase in the demand for H<sub>2</sub>O<sub>2</sub> as environment-friendly bleaching agents in the pulp and paper industry across the globe. This, coupled with the rising awareness among the masses about the benefits of H<sub>2</sub>O<sub>2</sub>, is propelling the growth of the market. Moreover, several initiatives undertaken by governments of various countries for pollution control applications are strengthening the growth of the market. Apart from this, the growing employment of H<sub>2</sub>O<sub>2</sub> to produce propylene oxide (HPPO) technology is offering a favorable market outlook. In line with this, the escalating demand for H<sub>2</sub>O<sub>2</sub> in the food and beverage (F&B) industry to manufacture safe and hygienic packaging is providing lucrative growth opportunities to industry investors. Additionally, the rising demand for H<sub>2</sub>O<sub>2</sub> in the agriculture industry to improve crop yield is impelling the growth of the market. Furthermore, the increasing demand for H<sub>2</sub>O<sub>2</sub> as a disinfectant against a wide range of microorganisms, such as bacteria, yeasts, fungi, viruses, and spores, is bolstering the growth of the market.

#### Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global hydrogen peroxide market report, along with forecasts at the global and regional level from 2024-2032. Our report has categorized the market based on application and end-use.

#### Application Insights:

- Chemical Synthesis
- Bleaching
- Disinfectant
- Cleaning and Etching
- Others

The report has provided a detailed breakup and analysis of the hydrogen peroxide market based on the application. This includes chemical synthesis, bleaching, disinfectant, cleaning and etching, and others. According to the report, chemical synthesis represented the largest segment as hydrogen peroxide is used in the chemical industry for manufacturing organic compounds. Furthermore, owing to the low molecular weight of hydrogen peroxide, it is considered as an efficient oxidizing agent as compared to other agents, such as potassium dichromate or permanganate.

#### End-Use Insights:

Pulp and Paper  
Food and Beverages  
Water Treatment  
Textiles and Laundry  
Oil and Gas  
Healthcare  
Electronics  
Others

A detailed breakup and analysis of the hydrogen peroxide market based on the end-use has also been provided in the report. This includes pulp and paper, food and beverages, water treatment, textiles and laundry, oil and gas, healthcare, electronics, and others. According to the report, pulp and paper accounted for the largest market share due to the increasing utilization of hydrogen peroxide on account of its effective bleaching properties, lower production costs, improved paper quality and various environmental benefits for removing chlorine compounds in pulp bleaching process. In addition, the growing employment of hydrogen peroxide in bleaching of mechanical pulp, chemical pulp, and recyclable pulp is offering a positive market outlook.

#### Regional Insights:

Asia Pacific  
Europe  
Middle East and Africa  
North America  
Latin America

The report has also provided a comprehensive analysis of all the major regional markets, which include Asia Pacific, Europe, the Middle East and Africa, North America, and Latin America. According to the report, Asia Pacific was the largest market for hydrogen peroxide. Some of the factors driving the Asia Pacific hydrogen peroxide market included the increasing utilization of hydrogen peroxide in disinfectants and developing pulp and paper industry. Apart from this, various applications of hydrogen peroxide in the food and beverage (F&B), processing, textiles, chemical, and oil and gas industries are strengthening the growth of the market in the region.

#### Competitive Landscape:

The report has also provided a comprehensive analysis of the competitive landscape in

the global hydrogen peroxide market. Some of the companies covered in the report include:

Solvay  
Evonik  
Arkema  
Kemira Oyj  
FMC Corporation  
EkO Peroxide LLC (acquired by AkzoNobel)  
Mitsubishi Gas Chemical Company  
PeroxyChem LLC  
Aditya Birla Chemicals Limited  
Kingboard Chemical Holdings Ltd  
BASF SE  
Merck  
Chang Chun Petrochemical  
Guangdong Zhongcheng Chemicals  
Hansol Chemical

#### Key Questions Answered in This Report

1. How big is the global hydrogen peroxide market?
2. What is the expected growth rate of the global hydrogen peroxide market during 2024-2032?
3. What are the key factors driving the global hydrogen peroxide market?
4. What has been the impact of COVID-19 on the global hydrogen peroxide market?
5. What is the breakup of the global hydrogen peroxide market based on the application?
6. What is the breakup of the global hydrogen peroxide market based on the end-use?
7. What are the key regions in the global hydrogen peroxide market?
8. Who are the key players/companies in the global hydrogen peroxide market?

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