

Global Alkali Hydroxide-free CO₂ Absorbent Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Alkali Hydroxide-free CO₂ Absorbent market size was valued at US\$ million in 2024 and is forecast to a readjusted size of USD million by 2031 with a CAGR of %during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

Alkali hydroxide-free CO₂ absorbents are materials designed to capture and remove carbon dioxide (CO₂) from gas streams without the use of traditional alkali hydroxides such as sodium hydroxide (NaOH) or potassium hydroxide (KOH). These absorbents offer several advantages, including reduced corrosiveness and improved safety.

Alkali hydroxide-free CO₂ absorbents provide a safer and potentially more efficient alternative to traditional alkali hydroxide-based methods. With a range of materials available, from amines to MOFs and ionic liquids, these absorbents can be tailored to specific applications and operational conditions. Their reduced corrosiveness, improved safety, and regenerability make them an attractive option for modern CO₂ capture technologies.

This report is a detailed and comprehensive analysis for global Alkali Hydroxide-free CO₂ Absorbent market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets.

Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Alkali Hydroxide-free CO₂ Absorbent market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/ton), 2020-2031

Global Alkali Hydroxide-free CO₂ Absorbent market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/ton), 2020-2031

Global Alkali Hydroxide-free CO₂ Absorbent market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/ton), 2020-2031

Global Alkali Hydroxide-free CO₂ Absorbent market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/ton), 2020-2025

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Alkali Hydroxide-free CO₂ Absorbent
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Alkali Hydroxide-free CO₂ Absorbent market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Vyaire Medical, Draeger, Armstrong Medical, Allied Healthcare, Micropore, Molecular Products, Intersurgical, Hisern, Flexicare, Atrasorb, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Alkali Hydroxide-free CO₂ Absorbent market is split by Type and by Application. For the

period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Solid

Liquid

Market segment by Application

Breathing Apparatus

Industrial Gas Treatment

Others

Major players covered

Vyaire Medical

Draeger

Armstrong Medical

Allied Healthcare

Micropore

Molecular Products

Intersurgical

Hisern

Flexicare

Atrasorb

Weihai Haigerui Medical

Weihai Shichuang Medical

Strong Medicine

Gome Science and Technology Group

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Alkali Hydroxide-free CO₂ Absorbent product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Alkali Hydroxide-free CO₂ Absorbent, with price, sales quantity, revenue, and global market share of Alkali Hydroxide-free CO₂ Absorbent from 2020 to 2025.

Chapter 3, the Alkali Hydroxide-free CO₂ Absorbent competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Alkali Hydroxide-free CO₂ Absorbent breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market

share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Alkali Hydroxide-free CO₂ Absorbent market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Alkali Hydroxide-free CO₂ Absorbent.

Chapter 14 and 15, to describe Alkali Hydroxide-free CO₂ Absorbent sales channel, distributors, customers, research findings and conclusion.

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