

Global Dry-Process Biogas Desulfurizer Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Dry-Process Biogas Desulfurizer market size was valued at US\$ 163 million in 2025 and is forecast to a readjusted size of US\$ 216 million by 2032 with a CAGR of 4.2% during review period.

Dry-process biogas desulfurization agents are solid purification materials used to remove hydrogen sulfide from biogas. Typically utilizing iron oxide, impregnated activated carbon, or composite metal oxides as their primary active ingredients, they convert and immobilize hydrogen sulfide through adsorption, chemical reaction, or catalytic oxidation. These products are generally loaded into fixed-bed desulfurization towers; the systems feature simple equipment structures, generate no liquid waste during operation, and are easy to maintain. They are primarily used for gas purification prior to biogas power generation, biomethane upgrading, and combustion applications.

The upstream segment of the industry chain primarily involves active materials—such as iron oxide, activated carbon, and composite metal oxides—and carrier materials like diatomaceous earth, clay, sawdust, and plant fibers; some products also incorporate alkaline impregnating agents, binders, and molding aids. Midstream enterprises formulate the products based on factors such as biogas sulfur content, humidity, and outlet specifications, manufacturing granular or pelletized desulfurization agents through processes including mixing, impregnation, molding, and drying. Downstream applications primarily serve livestock farms, wastewater treatment plants, landfills, and industrial organic wastewater treatment projects, facilitating hydrogen sulfide removal for biogas power generation, biomethane upgrading, and combustion.

In 2025, global sales volume is approximately 150,000 tons, with an average selling

price of around US\$950–1,100 per ton and gross margins for major manufacturers ranging from 20% to 30%. Industry growth is primarily driven by the expansion of biogas upgrading and biomethane projects, as well as the adoption of desulfurization materials with higher sulfur-loading capacities.

Report Scope

This report is a detailed and comprehensive analysis for global Dry-Process Biogas Desulfurizer 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 Dry-Process Biogas Desulfurizer market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Dry-Process Biogas Desulfurizer market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Dry-Process Biogas Desulfurizer market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Dry-Process Biogas Desulfurizer market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 2021-2026

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 Dry-Process Biogas Desulfurizer

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 Dry-Process Biogas Desulfurizer 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 Calgon Carbon Corporation, Jacobi Carbons, NORIT Activated Carbon, SLB, Clariant, Haycarb, Donau Carbon, Chemical Products Industries, HeGo Biotec, Wuhan Kelin Chemical Group, etc.

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

Dry-Process Biogas Desulfurizer market is split by Type and by Application. For the period 2021-2032, 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 Segmentation

Market segment by Type

Iron Oxide Based

Activated Carbon Based

Other

Market segment by Working Sulfur Capacity

Low Sulfur Capacity (<10%)

Medium Sulfur Capacity (10%–20%)

High Sulfur Capacity (>20%)

Market segment by Application

Agricultural Biogas

Municipal Biogas

Industrial Biogas

Landfill Gas

Other

Major players covered

Calgon Carbon Corporation

Jacobi Carbons

NORIT Activated Carbon

SLB

Clariant

Haycarb

Donau Carbon

Chemical Products Industries

HeGo Biotec

Wuhan Kelin Chemical Group

Mingshuo Environment Technology Group

Hunan Huanda Environmental Protection

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)

Chapter Outline

Chapter 1, to describe Dry-Process Biogas Desulfurizer product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Dry-Process Biogas Desulfurizer, with price, sales quantity, revenue, and global market share of Dry-Process Biogas Desulfurizer from 2021 to 2026.

Chapter 3, the Dry-Process Biogas Desulfurizer competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Dry-Process Biogas Desulfurizer breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021 to 2026. and Dry-Process Biogas Desulfurizer market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Dry-Process Biogas Desulfurizer.

Chapter 14 and 15, to describe Dry-Process Biogas Desulfurizer sales channel, distributors, customers, research findings and conclusion.

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