

Global Formaldehyde Gas Absorbent Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Formaldehyde Gas Absorbent market size is expected to reach \$ 557 million by 2032, rising at a market growth of 7.0% CAGR during the forecast period (2026-2032).

Formaldehyde Gas Absorbents are functional filter materials designed to remove gaseous formaldehyde from indoor air, HVAC systems, cleanrooms, vehicle air conditioning, and industrial exhaust streams through mechanisms such as physical adsorption, chemical oxidation, amine reaction, or catalytic decomposition. The estimated overall gross margin is approximately 42%.

Formaldehyde gas absorbents are a specialized subcategory within air filtration materials, with higher unit prices and margins than standard granular activated carbon. Growth is primarily driven by indoor air quality concerns, control of formaldehyde emissions from furniture and panels, AMC control in cleanrooms, and industrial organic waste gas treatment. The market for formaldehyde-removing air purifiers itself is also experiencing mid-to-high growth at around 7%–8% annually.

On the supply side, the market is dominated by chemical filter and activated carbon companies such as Calgon Carbon, Purafil, Camfil, AAF, Jacobi, and Kuraray. Chinese companies are more focused on modified activated carbon, honeycomb carbon, and filter cartridge OEM manufacturing. While standard activated carbon faces intense competition and significant price elasticity, specialized formaldehyde-impregnated, catalytic, and composite filter media command higher premiums due to differences in formulation, lifespan, pressure drop, and safety certifications.

The market is projected to grow at a CAGR of approximately 7.2% through 2032.

Growth drivers include replacement of home formaldehyde filter cartridges, air quality upgrades in commercial buildings, AMC control in semiconductor and display cleanrooms, and mitigation of formaldehyde emissions from engineered boards, resins, and laboratories. Key risks include inconsistent performance evaluation standards, substitution by low-cost activated carbon, and demand fluctuations influenced by real estate cycles.

This report studies the global Formaldehyde Gas Absorbent production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Formaldehyde Gas Absorbent and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Formaldehyde Gas Absorbent that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Formaldehyde Gas Absorbent total production and demand, 2021-2032, (kg)

Global Formaldehyde Gas Absorbent total production value, 2021-2032, (USD Million)

Global Formaldehyde Gas Absorbent production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (kg), (based on production site)

Global Formaldehyde Gas Absorbent consumption by region & country, CAGR, 2021-2032 & (kg)

U.S. VS China: Formaldehyde Gas Absorbent domestic production, consumption, key domestic manufacturers and share

Global Formaldehyde Gas Absorbent production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (kg)

Global Formaldehyde Gas Absorbent production by Type, production, value, CAGR, 2021-2032, (USD Million) & (kg)

Global Formaldehyde Gas Absorbent production by Application, production, value, CAGR, 2021-2032, (USD Million) & (kg)

This report profiles key players in the global Formaldehyde Gas Absorbent market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Calgon Carbon, Purafil, Camfil, AAF International, PureAir Filtration, Jacobi Group, Kuraray, Molecular Products, Graver Technologies, Bioconservacion, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Formaldehyde Gas Absorbent market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (kg) and average price (US\$/kg) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Formaldehyde Gas Absorbent Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Formaldehyde Gas Absorbent Market, Segmentation by Type:

Plain Activated Carbon

Impregnated Activated Carbon

Permanganate Alumina

Permanganate Zeolite

Amine Functional Media

Catalytic Media

Blended Media

Others

Global Formaldehyde Gas Absorbent Market, Segmentation by Target Gas Spectrum:

Formaldehyde Specific

Aldehyde Grade

VOC Grade

Oxidizable Gas Grade

Mixed Gas Grade

Others

Global Formaldehyde Gas Absorbent Market, Segmentation by Sales Channel:

Direct Sales

Distribution

Global Formaldehyde Gas Absorbent Market, Segmentation by Application:

Filter Element Manufacturing

Filtration Equipment Assembly

Exhaust Gas Treatment

Emission Source Control

Companies Profiled:

Calgon Carbon

Purafil

Camfil

AAF International

PureAir Filtration

Jacobi Group

Kuraray

Molecular Products

Graver Technologies

Bioconservacion

Bry-Air

IIECC

MayAir

K.J. Filtration Technologies

J&D Activated Carbon Filter

Zhulincarbon

Key Questions Answered:

1. How big is the global Formaldehyde Gas Absorbent market?
2. What is the demand of the global Formaldehyde Gas Absorbent market?
3. What is the year over year growth of the global Formaldehyde Gas Absorbent market?
4. What is the production and production value of the global Formaldehyde Gas Absorbent market?
5. Who are the key producers in the global Formaldehyde Gas Absorbent market?
6. What are the growth factors driving the market demand?

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