

Global Carbon Monoxide Oxidation Catalyst Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Carbon Monoxide Oxidation Catalyst market size is expected to reach \$ 4441 million by 2032, rising at a market growth of 3.4% CAGR during the forecast period (2026-2032).

Carbon monoxide oxidation catalysts are functional catalytic materials that can promote the oxidation reaction of carbon monoxide (CO) and oxygen (O₂) to carbon dioxide (CO₂) at relatively low temperatures. They are typically made by supporting precious metal active components (such as platinum, palladium, and gold) or transition metal oxides (such as copper, manganese, cobalt, iron, and cerium) on carriers such as honeycomb ceramics and activated carbon. These catalysts lower the activation energy of the CO oxidation reaction, improving carbon monoxide removal efficiency. They are not consumed during the reaction and are widely used in industrial waste gas treatment, automobile exhaust purification, gas turbine emission control, air purification, gas purification, high-purity gas preparation, and respiratory protection. Their performance mainly depends on low-temperature activity, resistance to moisture, resistance to sulfur poisoning, thermal stability, mechanical strength, and service life. In 2025, global sales of carbon monoxide oxidation catalysts were approximately 58.655 million liters, with prices mainly fluctuating with precious metal prices, reaching approximately US\$56.1 per liter in 2025.

In recent years, with increasingly stringent global environmental regulations and rising demands for industrial emission control, carbon monoxide (CO) catalysts, as important materials for gas purification and exhaust gas treatment, have maintained stable market demand growth. CO catalysts primarily convert toxic carbon monoxide into carbon dioxide through catalytic oxidation reactions, and are widely used in industrial waste gas treatment, automotive exhaust treatment, gas purification, and energy systems. Driven

by the 'dual carbon' goals and the trend towards cleaner production, the CO catalyst market is experiencing sustained development opportunities. Diesel vehicle exhaust treatment is the primary application area for CO catalysts.

From a demand structure perspective, diesel vehicle exhaust treatment is the most significant application area for CO catalysts. With increased environmental investment from industrial enterprises, the demand for exhaust gas purification in industries such as steel, chemicals, metallurgy, and waste incineration is gradually rising, leading to a sustained increase in demand for high-efficiency, long-life catalysts. In recent years, the development of gas turbines, hydrogen energy, and gas purification systems has also created new application opportunities for CO catalysts.

In terms of product structure, precious metal catalysts and non-precious metal catalysts are the main types. Among them, precious metal catalysts, represented by platinum and palladium, possess characteristics such as high activity and excellent low-temperature ignition performance, and are widely used in high-end exhaust gas treatment fields; non-precious metal systems such as copper, manganese, and iron have cost advantages in industrial waste gas treatment. Technologically, the industry is developing towards higher activity, lower temperature, and longer lifespan, while simultaneously improving catalytic efficiency and resistance to poisoning by optimizing carrier structure and dispersion processes.

In terms of the industry chain, upstream includes suppliers of materials such as precious metals, alumina, and honeycomb ceramics; midstream consists of catalyst manufacturers; and downstream comprises environmental engineering companies, automakers, and industrial end-users. The industry as a whole has high technical barriers, especially in formulation design, precious metal loading, and durability control, which place high demands on companies' R&D capabilities. With continuously upgrading environmental standards, the proportion of high-performance catalyst products continues to increase.

From a regional market perspective, the Asia-Pacific region is the world's largest CO catalyst market, benefiting from rapid growth in industrial scale and environmental governance needs; the European and North American markets maintain stable demand in terms of automotive exhaust emission standards and high-end industrial treatment; and the Middle East and Latin America markets are gradually releasing demand driven by industrialization and environmental investment. Overall, the global market exhibits a development pattern of parallel growth driven by environmental protection and technological upgrades.

Looking ahead, the global CO catalyst market will be driven by three core factors: first, the continued growth in demand for industrial environmental governance; second, the upgrading of emission standards for automobiles and energy systems; and third, the continuous advancement of catalytic material technology.

This report studies the global Carbon Monoxide Oxidation Catalyst production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Carbon Monoxide Oxidation Catalyst 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 Carbon Monoxide Oxidation Catalyst that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Carbon Monoxide Oxidation Catalyst total production and demand, 2021-2032, (L)

Global Carbon Monoxide Oxidation Catalyst total production value, 2021-2032, (USD Million)

Global Carbon Monoxide Oxidation Catalyst production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (L), (based on production site)

Global Carbon Monoxide Oxidation Catalyst consumption by region & country, CAGR, 2021-2032 & (L)

U.S. VS China: Carbon Monoxide Oxidation Catalyst domestic production, consumption, key domestic manufacturers and share

Global Carbon Monoxide Oxidation Catalyst production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (L)

Global Carbon Monoxide Oxidation Catalyst production by Type, production, value, CAGR, 2021-2032, (USD Million) & (L)

Global Carbon Monoxide Oxidation Catalyst production by Application, production, value, CAGR, 2021-2032, (USD Million) & (L)

This report profiles key players in the global Carbon Monoxide Oxidation Catalyst 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 Johnson Matthey, Umicore, BASF, Cummins, Yunnan Precious Catalyst, Weifu Environmental Protection, SINOCATALYST Environmental Protection, ActBlue, Kailong High Technology,

Shandong Yuanlin Silicon Ceramic New Materials, 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 Carbon Monoxide Oxidation Catalyst market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (L) and average price (US\$/L) 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 Carbon Monoxide Oxidation Catalyst Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Carbon Monoxide Oxidation Catalyst Market, Segmentation by Type:

Precious Metals

Non-precious Metals

Global Carbon Monoxide Oxidation Catalyst Market, Segmentation by Reaction Temperature:

Low-Temperature Catalyst

Medium-Temperature Catalyst

High-Temperature Catalyst

Global Carbon Monoxide Oxidation Catalyst Market, Segmentation by Carrier:

Honeycomb Ceramic Carrier

Others

Global Carbon Monoxide Oxidation Catalyst Market, Segmentation by Application:

Diesel Vehicle Exhaust Treatment

Gas Turbine

Industrial Exhaust

Fuel Cell

Other

Companies Profiled:

Johnson Matthey

Umicore

BASF

Cummins

Yunnan Precious Catalyst

Weifu Environmental Protection

SINOCATALYST Environmental Protection

ActBlue

Kailong High Technology

Shandong Yuanlin Silicon Ceramic New Materials

Key Questions Answered:

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

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