

Global CO Low Temperature Shift Catalyst 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 CO Low Temperature Shift Catalyst market size was valued at US\$ 1379 million in 2025 and is forecast to a readjusted size of US\$ 2083 million by 2032 with a CAGR of 6.1% during review period.

The CO Low Temperature Shift Catalyst (LTS catalyst) is a catalyst used in gas shift reactions, primarily to convert carbon monoxide (CO) into carbon dioxide (CO₂), while producing hydrogen (H₂). This reaction typically occurs at lower temperatures (around 200-250°C) and is widely used in hydrogen production, natural gas processing, and fuel cell applications. Low temperature shift catalysts often contain metals such as chromium (Cr), iron (Fe), or copper (Cu), which provide excellent catalytic performance, enabling high CO conversion rates at lower temperatures. Compared to high temperature shift catalysts, LTS catalysts operate under milder conditions and are commonly employed in the latter stages of gas purification and hydrogen production processes.

This report is a detailed and comprehensive analysis for global CO Low Temperature Shift Catalyst 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 CO Low Temperature Shift Catalyst market size and forecasts, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global CO Low Temperature Shift Catalyst market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global CO Low Temperature Shift Catalyst market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global CO Low Temperature Shift Catalyst market shares of main players, shipments in revenue (\$ Million), sales quantity (Kilotons), 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 CO Low Temperature Shift Catalyst

- 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 CO Low Temperature Shift Catalyst 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 Johnson Matthey, Topsoe, Clariant, Magma Group, Stanford Advanced Materials, Chengdu Senli Technology, Rezel Catalysts, Luyuan Industrial Catalyst, Sichuan Shutai Chemical Technology, etc.

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

Market Segmentation

CO Low Temperature Shift Catalyst 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 segment by Type

Iron-Based LTS Catalysts

Copper-Based LTS Catalysts

Chromium-Based LTS Catalysts

Others

Market segment by Application

Hydrogen Production

Natural Gas Processing

Fuel Cell

Other

Major players covered

Johnson Matthey

Topsoe

Clariant

Magma Group

Stanford Advanced Materials

Chengdu Senli Technology

Rezel Catalysts

Luyuan Industrial Catalyst

Sichuan Shutai Chemical Technology

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 CO Low Temperature Shift Catalyst product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of CO Low Temperature Shift Catalyst, with price, sales quantity, revenue, and global market share of CO Low Temperature Shift Catalyst from 2021 to 2026.

Chapter 3, the CO Low Temperature Shift Catalyst competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the CO Low Temperature Shift Catalyst 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 CO Low Temperature Shift Catalyst 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 CO Low Temperature Shift Catalyst.

Chapter 14 and 15, to describe CO Low Temperature Shift Catalyst sales channel, distributors, customers, research findings and conclusion.

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