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Global Oil Refining Metal Oxide Catalysts Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Oil Refining Metal Oxide Catalysts market size is expected to reach $ 3988 million by 2032, rising at a market growth of 5.5% CAGR during the forecast period (2026-2032).

In 2025, global Oil Refining Metal Oxide Catalyst production reached approximately 200,000 tons, with an average global market price of around USD 13,250 per ton.

The gross profit margin of major companies in the industry was approximately 22%?38%.

In 2025, global production capacity was approximately 250,000 tons.

Oil Refining Metal Oxide Catalysts are catalytic materials containing active or supporting metal oxides used to accelerate reactions in petroleum-refining processes. Typical applications include hydrodesulfurization, hydrocracking, catalytic reforming, residue upgrading, sulfur recovery, and purification of refinery streams. These catalysts improve conversion efficiency, remove contaminants, and support production of cleaner fuels. The product boundary excludes fluid catalytic cracking catalysts dominated by zeolites, refinery process chemicals without catalytic activity, and catalysts used primarily in petrochemical polymerization.

The upstream segment includes alumina, silica, titanium oxide, molybdenum, nickel, cobalt, tungsten compounds, binders, pore-forming agents, and specialty chemicals. Midstream manufacturers conduct formulation, precipitation, extrusion, drying, calcination, impregnation, activation, testing, and packaging. Downstream users include petroleum refineries, hydroprocessing units, sulfur-recovery facilities, lubricant plants,

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and heavy-oil upgrading projects. Spent-catalyst recovery, metal recycling, regeneration, technical support, and catalyst-loading services form associated downstream activities.

Oil refining metal oxide catalysts crack crude oil into high-value fuel fractions in refinery processes, with strong catalytic activity and anti-carbon deposition capability. Global petroleum processing demand sustains market scale. R&D targets high conversion efficiency and low heavy metal residue formulas.

This report studies the global Oil Refining Metal Oxide Catalysts production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Oil Refining Metal Oxide Catalysts 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 Oil Refining Metal Oxide Catalysts that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Oil Refining Metal Oxide Catalysts total production and demand, 2021-2032, (Tons)
Global Oil Refining Metal Oxide Catalysts total production value, 2021-2032, (USD Million)
Global Oil Refining Metal Oxide Catalysts production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)
Global Oil Refining Metal Oxide Catalysts consumption by region & country, CAGR, 2021-2032 & (Tons)
U.S. VS China: Oil Refining Metal Oxide Catalysts domestic production, consumption, key domestic manufacturers and share
Global Oil Refining Metal Oxide Catalysts production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)
Global Oil Refining Metal Oxide Catalysts production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)
Global Oil Refining Metal Oxide Catalysts production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Oil Refining Metal Oxide Catalysts market based on the following parameters - company overview, production, value, price, gross

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margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include W. R. Grace & Co., Albemarle Corporation, Topsoe A/S, Johnson Matthey Plc, Shell Catalysts & Technologies, BASF SE, Clariant AG, Axens SA, Haldor Topsoe, Inc., Honeywell UOP LLC, 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 Oil Refining Metal Oxide Catalysts market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Tons) and average price (US$/Ton) 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 Oil Refining Metal Oxide Catalysts Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Oil Refining Metal Oxide Catalysts Market, Segmentation by Type:

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Molybdenum-based Oxide Catalyst

Tungsten-based Oxide Catalyst

Nickel and Cobalt Oxide Catalyst

Other

Global Oil Refining Metal Oxide Catalysts Market, Segmentation by Catalyst Structure:

Supported Metal Oxide Catalyst

Mixed Metal Oxide Catalyst

Bulk Metal Oxide Catalyst

Global Oil Refining Metal Oxide Catalysts Market, Segmentation by Particle Size:

Fine-particle Type??1.5 mm?

Medium-particle Type??1.5?3.0 mm?

Large-particle Type??3.0 mm?

Global Oil Refining Metal Oxide Catalysts Market, Segmentation by Application:

Gasoline Refining

Diesel and Middle-distillate Refining

Heavy Oil and Residue Refining

Other

Companies Profiled:

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W. R. Grace & Co.

Albemarle Corporation

Topsoe A/S

Johnson Matthey Plc

Shell Catalysts & Technologies

BASF SE

Clariant AG

Axens SA

Haldor Topsoe, Inc.

Honeywell UOP LLC

Eurecat U.S. Inc.

Criterion Catalysts & Technologies

Sinopec Catalyst Co., Ltd.

CNPC Lanzhou Petrochemical Company

Fushun Research Institute of Petroleum and Petrochemicals

Zibo Qixiang Tengda Chemical Co., Ltd.

RIPI Catalyst Co., Ltd.

Nantong Jianghai Catalyst Co., Ltd.

Zhongchuang Chemical Catalyst Co., Ltd.

Shandong Boyuan Catalyst Co., Ltd.

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Key Questions Answered:

1. How big is the global Oil Refining Metal Oxide Catalysts market?
2. What is the demand of the global Oil Refining Metal Oxide Catalysts market?
3. What is the year over year growth of the global Oil Refining Metal Oxide Catalysts market?
4. What is the production and production value of the global Oil Refining Metal Oxide Catalysts market?
5. Who are the key producers in the global Oil Refining Metal Oxide Catalysts market?
6. What are the growth factors driving the market demand?

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