

# Saudi Arabia Catalyst Market, By Type (Heterogeneous Catalysts, and Homogeneous Catalysts), By Material (Zeolites, Chemical Compounds, Metals, and Additives), By Region, Competition, Forecast and Opportunities, 2028

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## Abstracts

Saudi Arabia Catalyst Market size is USD 941.92 million and is anticipated to increase at a CAGR of 4.50% in the forecast period 2023E - 2028F. Catalysis is extremely important in various phases of the fuel development process. Based on a year-over-year percentage, demand for the catalyst market increased by approximately 4.5% from 2021 to 2022. For the consistent conversion of crude oil into finished commercial goods, numerous catalytic processes are required. Delineated arrangement the refining process consumes up to 30% of all the catalysts produced in the industry. The reduction of olefins and, to a lesser extent, aromatics of the catalyst is caused by the catalytic application of hydrogen to various refining streams, which eliminates heteroatoms, especially those of Sulphur and Nitrogen, which have a negative environmental impact. The contemporary refinery cycle includes the hydroprocessing of final products and intermediate hydrocarbon sources as well as hydrocracking devices for the upgrade of heavy, intermediate products under various conditions. Financial support of USD 24.35 billion for the environment, water, and agriculture sectors has been allotted to achieve their Vision 2030 goals. Catalysts are used as fertilizers along with raw material to increase nutrient availability in the roots and promote the growth of the plants, like ammonia is produced with the help of iron catalysts as a fertilizer.

Catalyst cracking is an endothermic process, while hydrocracking is an exothermic process. While catalytic cracking and hydrocracking involve the use of catalysts, catalytic cracking doesn't involve the use of hydrogen. Types Of Refining Catalysts are hydrocracking catalysts, hydrotreating catalysts, fluid catalytic cracking catalysts, and

catalytic reforming catalysts. A catalyst and a high partial pressure of hydrogen gas are used in the hydrocracking process to convert complex hydrocarbon molecules into simpler ones. By reacting with hydrogen in the presence of a catalyst, hydrotreating is the process of eliminating undesirable contaminants like Sulphur, nitrogen, and metals from oil fractions. A catalyst and heat are used in the chemical process of fluid catalytic cracking to split long-chain hydrocarbons into shorter-chain hydrocarbons. A catalytic reforming catalyst is the modification of molecules to enhance the anti-knocking property of gasoline.

In the pharmaceutical industry, catalysts are essential for the manufacture of active pharmaceutical ingredients, or APIs. It is more cost-effective in the long run for the manufacturing of APIs because it produces less waste and can be recycled. Saudi Export Development Authority and the EXIM bank program are supporting businesses as 60% of local demand is being met by exports under the government of Saudi Arabia's ambition to boost the country's pharmaceutical industries to USD 10 billion in 2025. The most important and in-demand market component in the synthesis of active pharmaceutical ingredients is the catalyst.

### Increasing Demand from Refinery for Catalytic Cracking

Refiners must carry out the refining process with as few environmental pollutants as possible due to the rise in the number of rigorous environmental laws on emissions from refineries. Refining catalysts are one of the greatest solutions to implement these ever-increasing environmental restrictions in the refining process. Catalysts are mostly utilized in the cracking of feedstock components in petroleum refining to boost the production of high-quality products. Along with cost and energy savings, the use of a catalyst encourages the optimization of hydrocracking reactions. This has aided market expansion for applications related to petroleum refining. As per the International Trade Administration, Saudi Arabia is the dominant player in the Middle East and North Africa (MENA) region, which is growing at an extraordinary rate of 36%. Moreover, Saudi Arabia accounted for 52% of the vehicles sold in the Gulf Cooperation Council (GCC) and 35% in the MENA region in 2021. Any chemical compound with a dual purpose that is employed in refineries to speed up the refining of raw materials while also controlling the rate of the chemical reaction is referred to as a refining catalyst. The process of turning used dangerous catalysts into safe materials is known as refining catalysts. A refining catalyst is a chemical that is utilized as a catalyst in refineries to refine raw materials. On the other hand, the process of purifying spent or tainted catalysts is also known

as refining catalysts. The average gas production of the KSA reached 11 billion cubic feet/day in 2020, which amounted to 30% more than the production in 2010. Apart from these, the region holds 294,205,000 million cubic ft. of gas reserve in their territory.

### Rising Demand from Flourishing Petrochemicals Industry

Saudi Arabia is one of the greatest exporters of petroleum and is home to over 17% of the world's proven oil reserves. Aramco produced 12.4 mmbpd of hydrocarbons on average in 2020, 9.2 mmbpd of which were crude oil. In contrast, Aramco produced 11.6 mmbpd of hydrocarbons on average in the first half of 2021, with crude oil accounting for 8.6 mmbpd of that total. Saudi Arabia's output increased in step with the gradual increase in the organization of the petroleum exporting companies' quotas; as of June 2022, Saudi Arabia was producing 10.3 mmbpd of crude oil. Saudi Arabia aims to produce 2.9 million tonnes/year of blue and green hydrogen by 2030 and 4 million tonnes/year by 2035. Hydrogen is added to petroleum during hydroprocessing. Hydrotreating and hydrocracking are two distinct but related processes that are included in the term 'hydroprocessing.' By saturating the olefin and eliminating the impurities in petroleum feedstocks, hydrotreating and hydrocracking catalysts are used to improve gasoline quality.

### Recent Development

In January 2022, Honeywell announced the opening of a new production facility for oil and gas projects in Saudi Arabia. To provide a cutting-edge infrastructure for the manufacturing and assembly of natural gas and liquid fuel solutions, the facility has been established as a part of a Joint Venture (JV) agreement with Gas Arabian Services. This initiative expands on the commitments made in the memorandum of understanding (MOU) between Honeywell and Saudi Aramco, which was signed in May 2017. As part of that agreement, Honeywell agreed to make commercial efforts to support Saudi Aramco in attaining the objectives of the In-Kingdom Total Value Add (IKTVA) Program. In-Kingdom Total Value Add (IKTVA) wants to promote Saudi Vision 2030 by achieving 70% localization of production and employment. Also, Honeywell invested in Dhahran, Saudi Arabia in new catalytic processes for producing paraxylene.

In January 2019, A Joint Development and Cooperation Agreement (JDCA) was signed by Saudi Aramco Technologies, Axens, and TechnipFMC to hasten the development and commercialization of the Catalytic Crude to Chemicals (CC2C) technology. By converting more than 60% of a barrel of crude oil into chemicals, CC2C technology has the potential to greatly improve the yield and efficiency of the manufacturing of chemicals. Members of the FCC catalyst technology Alliance include Saudi Aramco, Axens, and TechnipFMC. Axens and TechnipFMC are two of the top suppliers of technology and infrastructure for the energy sector and the sole licensors of FCC catalyst technology. The IEA estimates that to meet the demand, an additional 4 Mbpd of crude oil must be transformed into petrochemicals by 2035. The development of CC2C technology offers a rare chance to purchase cutting-edge equipment that will be highly valued by the market to produce petrochemicals from crude oil.

## Market Segmentation

Saudi Arabia Catalyst Market is segmented based on type and material. Based on type, the market is divided into heterogeneous catalysts and homogeneous catalysts. Based on material, the market is segmented into Zeolites, Metals, Additives, and Chemical Compounds.

## Market Players

BASF Saudi Arabia Co. Ltd., Honeywell UOP, Axens Catalyst Arabia Ltd (ACAL), Sinopec Catalyst Co. Ltd., Shell plc (Shell Catalysts & Technologies), SABIC Industrial Catalyst Company, Arkema Chemicals Saudi Arabia, Haldor Topsoe Middle East, Clariant Ali Al Abdullah Al Tamimi Company Ltd, and AFI Group are some of the key players operating in the Saudi Arabia Catalyst Market.

## Report Scope:

In this report, Saudi Arabia Catalyst Market has been segmented into the following categories, in addition to the industry trends, which have also been detailed below:

### Saudi Arabia Catalyst Market, By Type:

Homogeneous Catalysts

Heterogeneous Catalyst

Saudi Arabia Catalyst Market, By Material:

Zeolites

Chemical Compounds

Metals

Additives

Saudi Arabia Catalyst Market, By Region:

Eastern

Northern & Central

Southern

Western

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in Saudi Arabia Catalyst Market.

Available Customizations:

With the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

*Saudi Arabia Catalyst Market, By Type (Heterogeneous Catalysts, and Homogeneous Catalysts), By Material (Zeoli...*



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