

Emission Control Catalyst Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028F Segmented By Product Type (Palladium, Platinum, Ammonia Oxidant Catalyst, Diesel Oxidant Catalyst, Rhodium, and Others), By Application (Mobile Emission Control Catalysts, and Stationary Emission Control Catalysts), By End User Industry (Automotive & Transportation, Chemical Industry, Oil & Gas Industry, Mining Industry, Power Industry, and Others), By Region, and Competition

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Abstracts

Global emission control catalyst market is anticipated to grow appreciably in the forecast period of 2028 due to growing people's preference towards cleaner fuels. Worldwide, nine out of ten people inhale unhealthy air. Air pollution is one of the major environmental risks for early death, accounting for more than 6 million premature deaths annually from heart attacks, strokes, diabetes, and respiratory diseases.

The global emission control catalyst market refers to the market for materials that are used to reduce harmful emissions from industrial processes, transportation, and other sources. These materials, known as emission control catalysts, are typically used in exhaust systems and other equipment to convert harmful pollutants into less harmful substances before they are released into the atmosphere. The automotive industry is a major consumer of emission control catalysts as regulations governing vehicle emissions become increasingly stringent. Other industries that use emission control catalysts include power generation, oil and gas, and chemical manufacturing.

The global emission control catalyst market is expected to continue to grow in the forecasted periods, driven by increasing environmental awareness, tightening regulations, and the growing adoption of cleaner technologies. Another, the growing awareness of environmental issues such as air pollution and climate change has led to increased public pressure on governments and industries to take action to reduce emissions. This has created a strong demand for emission control catalysts as a means of reducing harmful emissions. However, the market is also subject to various challenges, including high costs, technical complexities, and regulatory uncertainties.

Growing Awareness of the Harmful Effects of Air Pollution is a Factor Driving the Market Demand

The growing awareness of the harmful effects of air pollution is having a significant impact on the global emission control catalyst market. As public concern about the health and environmental impacts of air pollution continues to rise, governments around the world are implementing increasingly stringent regulations aimed at reducing emissions from various sources. On average, one out of 10 people around the world died due to the disease born by air pollution, which contributed to 11.65% of deaths globally last year. This has led to a significant increase in demand for emission control catalysts as industries seek to comply with these regulations. The automotive industry, for example, has been a major driver of demand for emission control catalysts, as increasingly strict emission standards have been implemented in many countries around the world. The use of emission control catalysts has become essential for meeting these standards and avoiding penalties for non-compliance.

In addition to regulatory drivers, the growing awareness of the harmful effects of air pollution has also created a strong consumer demand for cleaner products and technologies. This has led to the increasing adoption of electric and hybrid vehicles, which require emission control catalysts to reduce the emissions produced by internal combustion engines. This trend is expected to continue to drive demand for emission control catalysts in the automotive sector in the coming years. Therefore, the growing awareness of the harmful effects of air pollution is likely to continue to drive demand for emission control catalysts in a wide range of industries. This presents opportunities for companies in the emission control catalyst market to develop new and innovative products that can help industries reduce their environmental impact and comply with increasingly stringent regulations. Hence, all these factors will increase the global emission control catalysts market in the forecasted period.

Efforts for Reducing Emissions to Meet Environmental Regulations are a Propelling Factor

Reducing emissions to meet environmental regulations is a major driver of the global emission control catalyst market. Environmental regulations have become increasingly stringent in recent years, requiring industries to reduce their emissions of harmful pollutants such as nitrogen oxides, sulfur oxides, and particulate matter. This has created a strong demand for emission control catalysts across a wide range of industries.

The automotive industry is a major consumer of emission control catalysts as regulations governing vehicle emissions become increasingly stringent. For example, the European Union's Euro 6 emission standards require vehicles to emit significantly less nitrogen oxide than previous standards, leading to a growing demand for advanced emission control catalysts that can meet these requirements. Similarly, the US Environmental Protection Agency's Tier 3 emission standards require new vehicles to emit fewer pollutants, leading to a growing demand for emission control catalysts in the US market.

The power generation industry is another significant consumer of emission control catalysts as regulations governing emissions from power plants become increasingly strict. The use of emission control catalysts can help power plants reduce their emissions of nitrogen oxides, sulfur oxides, and particulate matter, which can help them comply with these regulations. In addition to regulatory drivers, the desire to reduce emissions and mitigate the impact of climate change is also driving the demand for emission control catalysts. The increasing adoption of cleaner technologies, such as electric vehicles and renewable energy sources, has created a growing demand for emission control catalysts in the production and operation of these technologies. Hence, all these regulators and government efforts are expected to propel the global market.

Technological Advancement Is a Key to Attract Customers and Increasing the Market Growth

Technological advancements have had a significant impact on the global emission control catalyst market. These advancements have made it possible to develop new and more efficient emission control catalysts that can reduce emissions more effectively than ever before. The impact of technological advancement can be seen in several areas:

Improved Catalyst Performance: Technological advancements have enabled the development of emission control catalysts that can achieve higher levels of performance than earlier generations of catalysts. For example, advances in catalyst design have led to the development of catalysts that are more effective at reducing emissions of nitrogen oxides, sulfur oxides, and particulate matter.

Lower costs: Technological advancements have also led to the development of more cost-effective emission control catalysts. For example, improvements in manufacturing processes have led to lower production costs for some types of catalysts, making them more accessible to a wider range of industries.

Nanocatalysts: Nanocatalysts are a relatively new type of emission control catalyst that uses nanoparticles to improve catalytic activity and reduce the amount of precious metals needed in the catalyst. Several companies have launched nanocatalysts that are designed to improve the performance and durability of emission control systems while reducing costs and environmental impact. Nanocatalysts are becoming increasingly popular in the automotive industry, where they are used to reduce emissions from gasoline and diesel engines.

Three-way catalysts: Three-way catalysts are emission control catalysts that can simultaneously reduce emissions of nitrogen oxides, carbon monoxide, and hydrocarbons from gasoline engines. Several companies have recently launched new three-way catalysts that are designed to improve performance and reduce costs. These catalysts are becoming increasingly important as the automotive industry transitions to more stringent emission regulations and as the demand for cleaner and more efficient engines grows.

Diesel oxidation catalysts: Diesel oxidation catalysts are emission control catalysts that can reduce emissions of carbon monoxide, hydrocarbons, and particulate matter from diesel engines. Several companies have launched new diesel oxidation catalysts that are designed to improve performance and reduce costs. These catalysts are becoming increasingly important as the demand for cleaner diesel engines grows, particularly in the commercial and industrial sectors.

Recent Development

In 2020, BASF announced plans to build a new production plant for mobile emission catalysts in Shanghai, China. The new plant will be the company's second production site for mobile emission catalysts in China and is expected to

be operational by 2023.

In 2019, Johnson Matthey announced plans to build a new manufacturing plant for automotive catalysts in Poland. The new plant is located in Gliwice and produces catalysts for gasoline and diesel engines.

Market Segmentation

Global emission control catalyst Market is segmented based on product type, application, end-user industry, and region. Based on product type, the market is segmented into palladium, platinum, ammonia oxidant catalyst, diesel oxidant catalyst, rhodium, and others. Based on the product, the market is categorized into mobile emission control catalysts and stationary emission control catalysts. Based on application, the market is fragmented into mobile emission control catalysts and stationary emission control catalysts. Based on the end user industry, the market is fragmented into automotive & transportation, chemical industry, oil & gas industry, mining industry, power industry, and others. Based on region, the market is divided into North America, Europe, Asia Pacific, South America, Middle East & Africa.

Company Profiles

BASF SE, Johnson Matthey Plc, Solvay SA, Umicore SA, Corning Incorporated, Clariant AG, AeriNOx Inc, CORMETECH, INC., Cataler Corporation, and DCL International Inc are some of the key players in global emission control catalyst Market.

Report Scope:

In this report, global emission control catalyst market has been segmented into the following categories, in addition to the industry trends, which have also been detailed below:

Emission Control Catalyst Market, By Product Type:

Palladium

Platinum

Ammonia Oxidant Catalyst

Diesel Oxidant Catalyst

Rhodium

Others

Emission Control Catalyst Market, By Application:

Mobile Emission Control Catalysts

Stationary Emission Control Catalysts

Emission Control Catalyst Market, By End User Industry:

Automotive & Transportation

Chemical Industry

Oil & Gas Industry

Mining Industry

Power Industry

Others

Emission Control Catalyst Market, By Region:

North America

United States

Mexico

Canada

Europe

France

Germany

United Kingdom

Spain

Italy

Asia-Pacific

China

India

South Korea

Japan

Australia

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive landscape

Company Profiles: Detailed analysis of the major companies present in the global emission control 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).

Contents

1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
 - 1.2.3. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

3. EXECUTIVE SUMMARY

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, Trends

4. VOICE OF CUSTOMER

5. GLOBAL EMISSION CONTROL CATALYST MARKET OUTLOOK

- 5.1. Market Size & Forecast
 - 5.1.1. By Value
- 5.2. Market Share & Forecast
 - 5.2.1. By Product Type (Palladium, Platinum, Ammonia Oxidant Catalyst, Diesel Oxidant Catalyst, Rhodium, and Others)
 - 5.2.2. By Application (Mobile Emission Control Catalysts, and Stationary Emission Control Catalysts)

5.2.3. By End User Industry (Automotive & Transportation, Chemical Industry, Oil & Gas Industry, Mining Industry, Power Industry, and Others)

5.2.4. By Region (North America, Europe, Asia Pacific, South America, Middle East & Africa)

5.2.5. By Company (2022)

5.3. Market Map

5.3.1. By Product Type

5.3.2. By Application

5.3.3. By End User Industry

5.3.4. By Region

6. NORTH AMERICA EMISSION CONTROL CATALYST MARKET OUTLOOK

6.1. Market Size & Forecast

6.1.1. By Value

6.2. Market Share & Forecast

6.2.1. By Product Type

6.2.2. By Application

6.2.3. By End User Industry

6.2.4. By Country

6.3. Pricing Analysis

6.4. North America: Country Analysis

6.4.1. United States Emission Control Catalyst Market Outlook

6.4.1.1. Market Size & Forecast

6.4.1.1.1. By Value

6.4.1.2. Market Share & Forecast

6.4.1.2.1. By Product Type

6.4.1.2.2. By Application

6.4.1.2.3. By End User Industry

6.4.2. Mexico Emission Control Catalyst Market Outlook

6.4.2.1. Market Size & Forecast

6.4.2.1.1. By Value

6.4.2.2. Market Share & Forecast

6.4.2.2.1. By Product Type

6.4.2.2.2. By Application

6.4.2.2.3. By End User Industry

6.4.3. Canada Emission Control Catalyst Market Outlook

6.4.3.1. Market Size & Forecast

6.4.3.1.1. By Value

- 6.4.3.2. Market Share & Forecast
 - 6.4.3.2.1. By Product Type
 - 6.4.3.2.2. By Application
 - 6.4.3.2.3. By End User Industry

7. EUROPE EMISSION CONTROL CATALYST MARKET OUTLOOK

- 7.1. Market Size & Forecast
 - 7.1.1. By Value
- 7.2. Market Share & Forecast
 - 7.2.1. By Product Type
 - 7.2.2. By Application
 - 7.2.3. By End User Industry
 - 7.2.4. By Country
- 7.3. Pricing Analysis
- 7.4. Europe: Country Analysis
 - 7.4.1. France Emission Control Catalyst Market Outlook
 - 7.4.1.1. Market Size & Forecast
 - 7.4.1.1.1. By Value
 - 7.4.1.2. Market Share & Forecast
 - 7.4.1.2.1. By Product Type
 - 7.4.1.2.2. By Application
 - 7.4.1.2.3. By End User Industry
 - 7.4.2. Germany Emission Control Catalyst Market Outlook
 - 7.4.2.1. Market Size & Forecast
 - 7.4.2.1.1. By Value
 - 7.4.2.2. Market Share & Forecast
 - 7.4.2.2.1. By Product Type
 - 7.4.2.2.2. By Application
 - 7.4.2.2.3. By End User industry
 - 7.4.3. United Kingdom Emission Control Catalyst Market Outlook
 - 7.4.3.1. Market Size & Forecast
 - 7.4.3.1.1. By Value
 - 7.4.3.2. Market Share & Forecast
 - 7.4.3.2.1. By Product Type
 - 7.4.3.2.2. By Application
 - 7.4.3.2.3. By End User Industry
 - 7.4.4. Spain Emission Control Catalyst Market Outlook
 - 7.4.4.1. Market Size & Forecast

- 7.4.4.1.1. By Value
- 7.4.4.2. Market Share & Forecast
 - 7.4.4.2.1. By Product Type
 - 7.4.4.2.2. By Application
 - 7.4.4.2.3. By End User Industry
- 7.4.5. Italy Emission Control Catalyst Market Outlook
 - 7.4.5.1. Market Size & Forecast
 - 7.4.5.1.1. By Value
 - 7.4.5.2. Market Share & Forecast
 - 7.4.5.2.1. By Product Type
 - 7.4.5.2.2. By Application
 - 7.4.5.2.3. By End User industry

8. ASIA-PACIFIC EMISSION CONTROL CATALYST MARKET OUTLOOK

- 8.1. Market Size & Forecast
 - 8.1.1. By Value
- 8.2. Market Share & Forecast
 - 8.2.1. By Product Type
 - 8.2.2. By Application
 - 8.2.3. By End User Industry
 - 8.2.4. By Country
- 8.3. Pricing Analysis
- 8.4. Asia-Pacific: Country Analysis
 - 8.4.1. China Emission Control Catalyst Market Outlook
 - 8.4.1.1. Market Size & Forecast
 - 8.4.1.1.1. By Value
 - 8.4.1.2. Market Share & Forecast
 - 8.4.1.2.1. By Product Type
 - 8.4.1.2.2. By Application
 - 8.4.1.2.3. By End User Industry
 - 8.4.2. India Emission Control Catalyst Market Outlook
 - 8.4.2.1. Market Size & Forecast
 - 8.4.2.1.1. By Value
 - 8.4.2.2. Market Share & Forecast
 - 8.4.2.2.1. By Product Type
 - 8.4.2.2.2. By Application
 - 8.4.2.2.3. By End User Industry
 - 8.4.3. South Korea Emission Control Catalyst Market Outlook

- 8.4.3.1. Market Size & Forecast
 - 8.4.3.1.1. By Value
- 8.4.3.2. Market Share & Forecast
 - 8.4.3.2.1. By Product Type
 - 8.4.3.2.2. By Application
 - 8.4.3.2.3. By End User Industry
- 8.4.4. Japan Emission Control Catalyst Market Outlook
 - 8.4.4.1. Market Size & Forecast
 - 8.4.4.1.1. By Value
 - 8.4.4.2. Market Share & Forecast
 - 8.4.4.2.1. By Product Type
 - 8.4.4.2.2. By Application
 - 8.4.4.2.3. By End User Industry
- 8.4.5. Australia Emission Control Catalyst Market Outlook
 - 8.4.5.1. Market Size & Forecast
 - 8.4.5.1.1. By Value
 - 8.4.5.2. Market Share & Forecast
 - 8.4.5.2.1. By Product Type
 - 8.4.5.2.2. By Application
 - 8.4.5.2.3. By End User Industry

9. SOUTH AMERICA EMISSION CONTROL CATALYST MARKET OUTLOOK

- 9.1. Market Size & Forecast
 - 9.1.1. By Value
- 9.2. Market Share & Forecast
 - 9.2.1. By Product Type
 - 9.2.2. By Application
 - 9.2.3. By End User Industry
 - 9.2.4. By Country
- 9.3. Pricing Analysis
- 9.4. South America: Country Analysis
 - 9.4.1. Brazil Emission Control Catalyst Market Outlook
 - 9.4.1.1. Market Size & Forecast
 - 9.4.1.1.1. By Value
 - 9.4.1.2. Market Share & Forecast
 - 9.4.1.2.1. By Product Type
 - 9.4.1.2.2. By Application
 - 9.4.1.2.3. By End User Industry

9.4.2. Argentina Emission Control Catalyst Market Outlook

9.4.2.1. Market Size & Forecast

9.4.2.1.1. By Value

9.4.2.2. Market Share & Forecast

9.4.2.2.1. By Product Type

9.4.2.2.2. By Application

9.4.2.2.3. By End User Industry

9.4.3. Colombia Emission Control Catalyst Market Outlook

9.4.3.1. Market Size & Forecast

9.4.3.1.1. By Value

9.4.3.2. Market Share & Forecast

9.4.3.2.1. By Product Type

9.4.3.2.2. By Application

9.4.3.2.3. By End User Industry

10. MIDDLE EAST AND AFRICA EMISSION CONTROL CATALYST MARKET OUTLOOK

10.1. Market Size & Forecast

10.1.1. By Value

10.2. Market Share & Forecast

10.2.1. By Product Type

10.2.2. By Application

10.2.3. By End User Industry

10.2.4. By Country

10.3. Pricing Analysis

10.4. MEA: Country Analysis

10.4.1. South Africa Emission Control Catalyst Market Outlook

10.4.1.1. Market Size & Forecast

10.4.1.1.1. By Value

10.4.1.2. Market Share & Forecast

10.4.1.2.1. By Product Type

10.4.1.2.2. By application

10.4.1.2.3. By End User industry

10.4.2. Saudi Arabia Emission Control Catalyst Market Outlook

10.4.2.1. Market Size & Forecast

10.4.2.1.1. By Value

10.4.2.2. Market Share & Forecast

10.4.2.2.1. By Product Type

- 10.4.2.2.2. By Application
- 10.4.2.2.3. By End User Industry
- 10.4.3. UAE Emission Control Catalyst Market Outlook
 - 10.4.3.1. Market Size & Forecast
 - 10.4.3.1.1. By Value
 - 10.4.3.2. Market Share & Forecast
 - 10.4.3.2.1. By Product Type
 - 10.4.3.2.2. By Application
 - 10.4.3.2.3. By End User Industry

11. MARKET DYNAMICS

- 11.1. Drivers
- 11.2. Challenges

12. MARKET TRENDS & DEVELOPMENTS

- 12.1. Product Launches
- 12.2. Mergers & Acquisitions
- 12.3. Technological Advancements

13. GLOBAL EMISSION CONTROL CATALYST MARKET: SWOT ANALYSIS

14. PORTER'S FIVE FORCES ANALYSIS

- 14.1. Competition in the Industry
- 14.2. Potential of New Entrants
- 14.3. Power of Suppliers
- 14.4. Power of Customers
- 14.5. Threat of Substitute End Users

15. COMPETITIVE LANDSCAPE

- 15.1. Business Overview
- 15.2. Product Offerings
- 15.3. Recent Developments
- 15.4. Financials (In Case of Listed Companies)
- 15.5. Key Personnel
 - 15.5.1. BASF SE

- 15.5.2. Johnson Matthey Plc
- 15.5.3. Solvay SA
- 15.5.4. Umicore SA
- 15.5.5. Corning Incorporated
- 15.5.6. Clariant AG
- 15.5.7. AeriNOx Inc
- 15.5.8. CORMETECH, INC.
- 15.5.9. Cataler Corporation
- 15.5.10. DCL International Inc

16. STRATEGIC RECOMMENDATIONS

17. ABOUT US & DISCLAIMER

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