

Global Pt-Based Alloy Catalyst Supply, Demand and Key Producers, 2023-2029

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Abstracts

The global Pt-Based Alloy Catalyst market size is expected to reach \$ million by 2029, rising at a market growth of % CAGR during the forecast period (2023-2029).

Pt based alloy catalysts are catalysts with platinum (Pt) as the main component and form alloy structures with other metal or non-metallic elements. Alloyed platinum catalysts can change their catalytic performance, improve their activity, stability, and selectivity by alloying with other elements to meet the needs of specific catalytic reactions. The alloy elements of Pt based alloy catalysts can be transition metals, rare earth metals, precious metals, non precious metals, or carbon. The introduction of these alloy elements can regulate the electronic structure, lattice structure, and surface characteristics of the catalyst, thereby affecting its catalytic activity and selectivity. Pt based alloy catalysts play a key role in many important catalytic reactions, including the oxygen reduction reaction catalyst in Proton-exchange membrane fuel cell (PEMFC): Pt based alloy catalysts are widely used in the cathode catalyst layer of Proton-exchange membrane fuel cell to promote the oxygen reduction reaction and improve the efficiency of fuel cells. Hydrogen catalyst for electrolysis of aquatic products: Pt based alloy catalyst can provide Active site on the catalyst surface during Electrolysed water, promote Chemical decomposition of water, and generate hydrogen. Catalysts in organic synthesis reactions: Pt based alloy catalysts have high activity and selectivity in organic synthesis reactions, such as hydrogenation reactions, oxidation reactions, hydrogenolysis reactions, etc. Electrochemical catalysts: Pt based alloy catalysts are widely used in the field of electrochemical catalysis, including electrolytic hydrogen production, battery electrode catalysts, etc. The research and development of Pt based alloy catalysts are of great significance for improving energy conversion efficiency, reducing catalyst costs, and improving environmental sustainability.

This report studies the global Pt-Based Alloy Catalyst production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Pt-Based Alloy Catalyst, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of Pt-Based Alloy Catalyst that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Pt-Based Alloy Catalyst total production and demand, 2018-2029, (Tons)

Global Pt-Based Alloy Catalyst total production value, 2018-2029, (USD Million)

Global Pt-Based Alloy Catalyst production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (Tons)

Global Pt-Based Alloy Catalyst consumption by region & country, CAGR, 2018-2029 & (Tons)

U.S. VS China: Pt-Based Alloy Catalyst domestic production, consumption, key domestic manufacturers and share

Global Pt-Based Alloy Catalyst production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (Tons)

Global Pt-Based Alloy Catalyst production by Type, production, value, CAGR, 2018-2029, (USD Million) & (Tons)

Global Pt-Based Alloy Catalyst production by Application production, value, CAGR, 2018-2029, (USD Million) & (Tons).

This reports profiles key players in the global Pt-Based Alloy 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 PLC, BASF SE, Umicore N.V., Clariant International Ltd., Heraeus Holding GmbH, Tanaka Holdings Co., Ltd., W. R. Grace & Co., TKK Corporation and Alfa Aesar, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Pt-Based Alloy Catalyst 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 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global Pt-Based Alloy Catalyst Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Pt-Based Alloy Catalyst Market, Segmentation by Type

Pt/C Catalyst

PtRu/C Catalyst

PtCo/C Catalyst

PtPd/C Catalyst

PtNi/C Catalyst

Global Pt-Based Alloy Catalyst Market, Segmentation by Application

Energy Industry

Chemical Industry

Environmental Protection Industry

Medical Industry

Others

Companies Profiled:

Johnson Matthey PLC

BASF SE

Umicore N.V.

Clariant International Ltd.

Heraeus Holding GmbH

Tanaka Holdings Co., Ltd.

W. R. Grace & Co.

TKK Corporation

Alfa Aesar

Evonik Industries AG

NanoMaterials Technology Pte. Ltd.

Advanced Chemical Industries Limited (ACI)

Taiyo Nippon Sanso Corporation

Axens S.A.

Solvias AG

Key Questions Answered

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

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