

# Global Anode Catalyst Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Anode Catalyst market size is expected to reach \$ 6850 million by 2032, rising at a market growth of 12.1% CAGR during the forecast period (2026-2032).

An Anode Catalyst is a functional catalytic material applied at the anode of an electrochemical device?such as fuel cells, water electrolyzers, CO? electrolyzers, or metal?air batteries?to accelerate oxidation reactions (e.g., hydrogen oxidation reaction, oxygen evolution reaction, alcohol oxidation, or metal dissolution), lowering overpotential and improving system efficiency, durability, and current density. Typical materials include platinum group metals (Pt, Ir, Ru), transition-metal oxides (Ni, Co, Mn oxides), spinels, perovskites, and supported nanocatalysts dispersed on carbon, titanium mesh, or conductive ceramics. The supply chain begins upstream with mining and refining of precious metals (PGMs) and base metals, specialty chemical precursors (chlorides, nitrates), and support materials (carbon black, graphene, Ti felt), followed by midstream catalyst synthesis (impregnation, sol-gel, thermal decomposition, atomic layer deposition), electrode fabrication (coating, calendaring, CCM assembly), and integration into stacks/modules by electrolyzer or fuel cell OEMs; downstream demand is driven by hydrogen production (PEM/AEM/SOEC electrolyzers), green methanol and Power-to-X systems, automotive fuel cells, industrial electrolysis, and emerging CCU platforms, with recycling of PGMs forming a critical circular loop in the value chain. In 2025, global anode catalyst production was approximately 110 tons, supported by 130 tons per year of installed capacity, with average pricing ranging from USD 25,000?52,000 per kg, and industry gross margins averaging around 23%.

This report studies the global Anode Catalyst production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Anode Catalyst 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 Anode Catalyst that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Anode Catalyst total production and demand, 2021-2032, (Tons)

Global Anode Catalyst total production value, 2021-2032, (USD Million)

Global Anode Catalyst production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Anode Catalyst consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Anode Catalyst domestic production, consumption, key domestic manufacturers and share

Global Anode Catalyst production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Anode Catalyst production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Anode Catalyst production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Anode 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 (UK), Umicore (Belgium), Heraeus (Germany), Tanaka (Japan), Clariant (Switzerland), 3M Company (USA), BASF (Germany), Topsoe (Denmark), Nisshinbo (Japan), VINATech (South Korea), 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 Anode 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 2021-2032 by

year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

#### Global Anode Catalyst Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Anode Catalyst Market, Segmentation by Type:

Hydrogen Oxidation Catalyst

Oxygen Evolution Catalyst

Alcohol Oxidation Catalyst

CO<sub>2</sub> Oxidation Catalyst

Metal Oxidation Catalyst

#### Global Anode Catalyst Market, Segmentation by Electrolyte Compatibility:

Acidic

Alkaline

Global Anode Catalyst Market, Segmentation by Application:

Electrochemical Energy

Industrial Processing

Others

Companies Profiled:

Johnson Matthey (UK)

Umicore (Belgium)

Heraeus (Germany)

Tanaka (Japan)

Clariant (Switzerland)

3M Company (USA)

BASF (Germany)

Topsoe (Denmark)

Nisshinbo (Japan)

VINATech (South Korea)

Cataler (Japan)

Kunshan Sunlaite (China)

Suzhou Hydrogine Power Technology (China)

**Key Questions Answered:**

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

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