

Global SCR Plate Denitrification Catalysts Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GF8B0FCF2DA0EN.html>

Date: September 2026

Pages: 134

Price: US\$ 4,480.00 (Single User License)

ID: GF8B0FCF2DA0EN

Abstracts

The global SCR Plate Denitrification Catalysts market size is expected to reach \$ 508 million by 2032, rising at a market growth of 5.1% CAGR during the forecast period (2026-2032).

SCR plate denitrification catalysts are stationary-source DeNO_x materials manufactured by applying a catalyst paste onto stainless-steel mesh, perforated metal sheets or expanded-metal substrates, followed by rolling, forming, drying and calcination. The catalytic layer typically uses anatase TiO₂ as the carrier, V₂O₅ as the principal active component and WO₃ or MoO₃ as promoters. Individual plates are assembled at a specified pitch to form catalyst modules that selectively convert NO and NO₂ into nitrogen and water using ammonia, including ammonia generated from urea, as the reductant. Their wide gas channels, strong resistance to ash plugging, erosion and mechanical impact make them particularly suitable for high-dust and high-ash flue gas. Major upstream materials include titanium dioxide, vanadium pentoxide, tungsten oxide, molybdenum oxide, stainless-steel mesh, glass fibers, binders and forming additives. Major downstream applications include coal-fired power plants, steel sintering and coking, cement kilns, glass furnaces, waste incineration, biomass boilers and industrial furnaces.

In 2025, global SCR plate denitrification catalysts production reached approximately 170 k cubic meters, with an average global market price is \$2,000 per cubic meter.

Market Drivers: SCR plate denitrification catalysts market is mainly driven by ultra-low-emission retrofits in coal-fired power plants, steel sintering, coking, cement, glass, waste incineration, biomass boilers, industrial boilers, and other non-power industrial sectors. Compared with honeycomb catalysts, plate-type catalysts generally offer more

open channels, stronger ash-resistance, better abrasion resistance, easier soot blowing and cleaning, and stronger adaptability to high-dust flue gas conditions. They are suitable for SCR DeNO_x applications with high dust concentration, strong fly-ash abrasion, fluctuating flue gas conditions, or complex operation and maintenance requirements. As existing power units require catalyst replacement, non-power industries deepen emission reduction, low-load DeNO_x becomes more important, and environmental systems are upgraded, demand for plate-type SCR catalysts remains stable in high-dust, high-abrasion, and long-cycle operation projects.

Restraint: The main restraints for SCR plate denitrification catalysts are that volumetric activity, module size, manufacturing cost, and engineering adaptability must compete with honeycomb and corrugated catalyst structures. Although plate-type catalysts usually provide better anti-blocking performance, their specific surface area and packing density are generally lower than those of honeycomb structures, which may require larger catalyst volume or more optimized flow-field design under the same DeNO_x efficiency requirement. Flue gas from steel, coking, cement, glass, and coal-fired power applications may contain dust, alkali metals, arsenic, phosphorus, sulfur oxides, water vapor, heavy metals, and ammonium salts, which can still cause catalyst poisoning, surface wear, activity decay, or rising pressure drop. Plate-type catalysts also require strong control over substrate materials, active-component coating, bonding strength, thermal-shock resistance, module assembly precision, and long-term operation stability. Coating peeling, plate deformation, or improper soot-blowing practices may reduce DeNO_x efficiency and service life.

Opportunity: Future opportunities will mainly come from high-dust flue gas treatment, upgrades of existing SCR systems, deeper emission reduction in non-power industries, and demand for long-life, low-maintenance catalysts. Wide-load operation in coal-fired power plants, steel sintering machines, coke oven flue gas, cement kiln tail gas, glass furnaces, waste incineration, and industrial boilers will continue to require plate-type SCR catalysts with anti-blocking, abrasion resistance, poisoning resistance, low SO₂/SO₃ conversion, low pressure drop, and easier maintenance. Product upgrade directions include low-temperature plate-type SCR catalysts, high-dust abrasion-resistant plate catalysts, sulfur- and water-resistant plate catalysts, wide-temperature-window plate catalysts, regenerable plate catalysts, and modular catalyst systems for complex flue gas conditions.

Report Scope

This report studies the global SCR Plate Denitrification Catalysts production, demand,

key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for SCR Plate Denitrification 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 SCR Plate Denitrification Catalysts that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global SCR Plate Denitrification Catalysts total production and demand, 2021-2032, (Cubic Meter)

Global SCR Plate Denitrification Catalysts total production value, 2021-2032, (USD Million)

Global SCR Plate Denitrification Catalysts production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Cubic Meter), (based on production site)

Global SCR Plate Denitrification Catalysts consumption by region & country, CAGR, 2021-2032 & (Cubic Meter)

U.S. VS China: SCR Plate Denitrification Catalysts domestic production, consumption, key domestic manufacturers and share

Global SCR Plate Denitrification Catalysts production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Cubic Meter)

Global SCR Plate Denitrification Catalysts production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Cubic Meter)

Global SCR Plate Denitrification Catalysts production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Cubic Meter)

This report profiles key players in the global SCR Plate Denitrification Catalysts 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, Ceram Austria, Tianhe Environmental, Hailiang Environmental Materials, Datang Environment Industry, Guoneng Longyuan Environmental Protection, Jiangsu Wonder Environmental Protection Technology, Zhejiang Dechuang Environmental Protection Technology, Beijing Nation Power Environmental Technology, Mitsubishi Power, 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 SCR Plate Denitrification Catalysts market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Cubic Meter) and average price (US\$/Cubic Meter) 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 SCR Plate Denitrification Catalysts Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global SCR Plate Denitrification Catalysts Market, Segmentation by Type:

V₂O₅–WO₃/TiO₂ Catalysts

V₂O₅–MoO₃/TiO₂ Catalysts

Others

Global SCR Plate Denitrification Catalysts Market, Segmentation by Temperature:

Low-temperature SCR Catalysts(<300°C)

Standard-temperature SCR Catalysts (300–420°C)

High-temperature SCR Catalysts (>420°C)

Global SCR Plate Denitrification Catalysts Market, Segmentation by Plate Pitch:

Large-Pitch High-Dust Plate Catalysts

Standard-Pitch General-Service Plate Catalysts

Compact-Pitch Low-Dust Plate Catalysts

Global SCR Plate Denitrification Catalysts Market, Segmentation by Application:

Thermal Power Plants

Steel Plants

Cement, Glass and Ceramics Plants

Others

Companies Profiled:

Johnson Matthey

Ceram Austria

Tianhe Environmental

Hailiang Environmental Materials

Datang Environment Industry

Guoneng Longyuan Environmental Protection

Jiangsu Wonder Environmental Protection Technology

Zhejiang Dechuang Environmental Protection Technology

Beijing Nation Power Environmental Technology

Mitsubishi Power

NANO Co., Ltd.

Beijing Denox Environment & Technology

Key Questions Answered:

1. How big is the global SCR Plate Denitrification Catalysts market?
2. What is the demand of the global SCR Plate Denitrification Catalysts market?
3. What is the year over year growth of the global SCR Plate Denitrification Catalysts market?

4. What is the production and production value of the global SCR Plate Denitrification Catalysts market?
5. Who are the key producers in the global SCR Plate Denitrification Catalysts market?
6. What are the growth factors driving the market demand?

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