

Global Nitrogen Oxides (NO_x) Gas Absorbent Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Nitrogen Oxides (NO_x) Gas Absorbent market size was valued at US\$ 293 million in 2025 and is forecast to a readjusted size of US\$ 435 million by 2032 with a CAGR of 5.8% during review period.

Nitrogen Oxides (NO_x) Gas Absorbents are dry gas-phase adsorption or chemical absorption filter materials designed to remove NO, NO₂, and some NO_x mixtures under ambient or low-temperature conditions. They mainly include impregnated activated carbon, permanganate-alumina, oxidizing chemical filter media, composite molecular filtering media, and a small amount of structured filter materials. The estimated overall gross margin is approximately 39%.

NO_x gas absorbents are a small functional subcategory within gas-phase molecular filtration, with higher technical barriers and unit prices than standard deodorizing activated carbon. Key applications include NO₂ and acidic gas control in urban fresh air systems, tunnel ventilation, laboratories, data centers, museums, cleanrooms, and low-concentration industrial exhaust streams.

The supply side is dominated by European and U.S. gas-phase filtration media manufacturers, as well as activated carbon and chemical filter producers. Typical solutions include impregnated activated carbon, activated alumina, permanganate-based oxidizing filter media, and composite media. Standard carbon products are lower in price but have limited NO_x selectivity and lifespan. Specialized impregnated or composite media command higher premiums due to formulation, reactive capacity, pressure drop, flame retardancy, ISO 10121 testing, and safe disposal requirements.

From 2026 to 2032, the market is expected to grow at a CAGR of approximately 5.9%, driven by urban air quality improvement, rail/tunnel ventilation, cleanroom AMC control, and laboratory safety exhaust upgrades. However, this category is constrained because NO is difficult to remove with conventional adsorbents, and some NO_x treatments can generate byproducts and raise lifespan evaluation issues. Therefore, NO_x gas absorbents are more suitable as end-of-pipe low-concentration purification consumables rather than replacements for mainstream industrial denitrification systems such as SCR/SNCR.

This report is a detailed and comprehensive analysis for global Nitrogen Oxides (NO_x) Gas Absorbent market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Nitrogen Oxides (NO_x) Gas Absorbent market size and forecasts, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global Nitrogen Oxides (NO_x) Gas Absorbent market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global Nitrogen Oxides (NO_x) Gas Absorbent market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global Nitrogen Oxides (NO_x) Gas Absorbent market shares of main players, shipments in revenue (\$ Million), sales quantity (kg), and ASP (US\$/kg), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Nitrogen Oxides (NO_x) Gas Absorbent

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Nitrogen Oxides (NOx) Gas Absorbent market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Purafil, PureAir Filtration, AAF International, Camfil, Freudenberg Filtration Technologies, MANN+HUMMEL, Jacobi Group, Bioconservacion, Circul-Aire, Molecular Products, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Nitrogen Oxides (NOx) Gas Absorbent market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Plain Carbon

Impregnated Carbon

Permanganate Alumina

Blended Media

Others

Market segment by Target Gas

NO Grade

NO₂ Grade

NO_x Grade

Acid Gas Grade

Others

Market segment by Supply Form

Bulk Media

Structured Media

Filled Module

Other Forms

Market segment by Application

Filter Element Manufacturing

Filtration Equipment Assembly

Exhaust Gas Treatment

Emission Source Control

Major players covered

Purafil

PureAir Filtration

AAF International

Camfil

Freudenberg Filtration Technologies

MANN+HUMMEL

Jacobi Group

Bioconservacion

Circul-Aire

Molecular Products

Bry-Air

MayAir

Nippon Muki

Japan Air Filter

Heycarbons

Zhulin Carbon

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Nitrogen Oxides (NOx) Gas Absorbent product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Nitrogen Oxides (NOx) Gas Absorbent, with price, sales quantity, revenue, and global market share of Nitrogen Oxides (NOx) Gas Absorbent from 2021 to 2026.

Chapter 3, the Nitrogen Oxides (NOx) Gas Absorbent competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Nitrogen Oxides (NOx) Gas Absorbent breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Nitrogen Oxides (NOx) Gas Absorbent market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Nitrogen Oxides (NOx) Gas Absorbent.

Chapter 14 and 15, to describe Nitrogen Oxides (NOx) Gas Absorbent sales channel, distributors, customers, research findings and conclusion.

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