

Global Nitroguanidine Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Nitroguanidine market size is expected to reach \$ 973 million by 2032, rising at a market growth of 4.2% CAGR during the forecast period (2026-2032).

Nitroguanidine (NQ) is a colorless crystalline compound with the chemical formula CH_2N_3O . It belongs to the guanidine family and is known for its high energy density, making it a key component in explosives and propellants. Nitroguanidine has a stable structure, consisting of a guanidine group and a nitro group, which provides it with high stability and low sensitivity.

NQ is characterized by its high detonation velocity and pressure, yet it has low sensitivity, making it a safer material for use in explosive formulations. It is widely used in military applications as a propellant ingredient and in civilian industries as a component in explosives. Additionally, nitroguanidine is used in the production of pesticides, fertilizers, and other fine chemicals.

Increased Demand for High-Energy, Low-Sensitivity Materials in Military Applications: With the modernization of military equipment, nitroguanidine's high-energy yet low-sensitivity characteristics make it ideal for use in propellants and explosives. Its safety features reduce the risk of accidental explosions, making it a preferred choice in military ammunition and propellant formulations.

Development of Eco-Friendly and Green Propellants: Due to its relatively low toxicity and minimal pollution upon decomposition, nitroguanidine is being explored as a component in environmentally friendly propellants. Research is focusing on how NQ can contribute to greener explosives and propellants, reducing environmental impact, particularly in military and industrial operations.

Replacement of High-Sensitivity Materials: Traditional high-sensitivity explosives, such as TNT, pose significant safety risks. Nitroguanidine, with its lower sensitivity, is being increasingly used as a safer alternative in many applications. In environments where operational safety is critical, NQ is gradually replacing more sensitive explosives.

Expanding Applications in Fine Chemicals: Nitroguanidine's role in fine chemicals is also growing. Besides being a key ingredient in explosives and propellants, it serves as an intermediate in the production of pesticides and insecticides. With the global demand for agricultural products increasing, NQ's use in agrochemical production is expected to expand further.

Global Supply Chain and Production Expansion: As demand for nitroguanidine rises, particularly in military and agricultural sectors, production capacity is increasing worldwide. Emerging economies are investing in research and production of NQ to meet both domestic and international market demands.

Improved Safety Standards: Due to the widespread use of nitroguanidine, particularly in military and industrial applications, safety standards for its production, storage, and transportation are becoming stricter. Several countries and international organizations are setting higher safety protocols to ensure that NQ usage does not pose risks to workers or the environment.

In summary, nitroguanidine, with its high energy and low sensitivity, is becoming an essential material across military, industrial, and agricultural sectors. With advancements in technology and growing environmental consciousness, the market for nitroguanidine is expected to experience steady growth in the coming years.

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

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

Highlights and key features of the study

Global Nitroguanidine total production and demand, 2021-2032, (K MT)

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

Global Nitroguanidine production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K MT), (based on production site)

Global Nitroguanidine consumption by region & country, CAGR, 2021-2032 & (K MT)

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

Global Nitroguanidine production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K MT)

Global Nitroguanidine production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K MT)

Global Nitroguanidine production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K MT)

This report profiles key players in the global Nitroguanidine 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 Island Pyrochemical Industries (IPI), Alz, Bowas, Rheinmetall, Nantong Tianze Chemical, Soochow, Gulang Changhai, Beilite Chemical, 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 Nitroguanidine market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K MT) and average price (USD/MT) 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 Nitroguanidine Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Nitroguanidine Market, Segmentation by Type:

Wet

Dry

Global Nitroguanidine Market, Segmentation by Application:

Military

Pharmaceuticals

Pesticides

Automotive Airbags

Other

Companies Profiled:

Island Pyrochemical Industries (IPI)

Alz

Bowas

Rheinmetall

Nantong Tianze Chemical

Soochow

Gulang Changhai

Beillite Chemical

Key Questions Answered:

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

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