

# Global Carbon Nitride 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 Carbon Nitride market size was valued at US\$ 2.12 million in 2025 and is forecast to a readjusted size of US\$ 4.88 million by 2032 with a CAGR of 12.0% during review period.

Carbon nitride (most often meaning polymeric/graphitic carbon nitride, g-C<sub>3</sub>N<sub>4</sub>, and related CN<sub>x</sub> materials) is an emerging functional-materials market built around nitrogen-rich carbon solids that act as light-active semiconductors and catalytic supports, and are sold as powders, nanosheets, porous particles, coatings/films, or composites for use in photocatalysis (pollutant removal, water splitting for hydrogen, CO<sub>2</sub> conversion, organic transformations), electrochemical catalysis (especially oxygen reduction and related reactions), and a growing set of energy-storage and sensing uses. The product in this market is usually not a finished consumer good; it is a platform material that downstream users modify (dope, exfoliate, combine with metals/oxides, immobilize on substrates) to hit a target activity, stability, and process form factor for their own device, reactor, coating, or electrode. In today's supply landscape, a meaningful share of demand still comes from universities and industrial R&D labs buying catalog g-C<sub>3</sub>N<sub>4</sub> powders or basic derivatives, while pilot-scale and application-specific grades are expanding as more groups move from proof-of-concept to demonstrators and field-oriented prototypes. This R&D-heavy, application-pull structure is consistent with how the scientific literature frames g-C<sub>3</sub>N<sub>4</sub>: a widely used, comparatively easy-to-prepare, metal-free semiconductor photocatalyst with broad application potential that still needs engineering to overcome performance limits.

In 2025, global Carbon Nitride production reached approximately 101.7 kg, with an average global market price of around US\$ 20.3 per g. The global single-line production capacity ranges from 15 to 20 kg per year. The industry's gross profit margin is

approximately 25%-35%.

A key market trend is that plain bulk g-C<sub>3</sub>N<sub>4</sub> powder is becoming less of the end point and more of a starting point. Buyers increasingly ask for engineered structures because basic g-C<sub>3</sub>N<sub>4</sub> often suffers from limited surface area, fast electron/hole recombination, and modest conductivity, which cap real-world reaction rates. As a result, product differentiation is shifting toward porous frameworks, ultrathin nanosheets, defect-rich or doped variants, and multi-component composites that separate charges better and expose more active sites. In commercial terms, this pushes suppliers toward application-ready offerings e.g., pre-loaded co-catalysts, magnetically recoverable composites, or immobilized layers because many industrial users do not want to run multi-step nanomaterial synthesis in-house.

Another trend is expansion beyond classical photocatalysis into electrochemical energy conversion and storage, which broadens the addressable customer set. In fuel-cell and related electrochemical systems, carbon nitride and CN<sub>x</sub> materials are studied as catalyst supports and functional layers because nitrogen-containing carbons can improve catalyst anchoring and durability compared with some conventional carbon blacks, and can also participate in oxygen reduction chemistry when properly structured.

In batteries and supercapacitors, g-C<sub>3</sub>N<sub>4</sub> is increasingly explored as a 2D host with abundant nitrogen sites and tunable porosity; current reviews discuss its use across lithium-ion, sodium-ion, lithium/sulfur, and metal/air concepts, often in composite form to address conductivity and stability challenges.

For the market, this matters because energy-storage supply chains tend to reward scalable, consistent powders and coatings, and they create pull for standardized QC metrics (surface area, defect density proxies, conductivity, impurity profiles), which are not always prioritized in purely academic procurement.

The carbon nitride market can be defined as a platform-materials space transitioning from research supply to early application-driven specialization. The most likely near-term growth pattern is not one big volume jump, but a gradual build across several niches where carbon nitride offers a cost, sustainability, or durability advantage and where engineering can overcome integration barriers: visible-light photocatalysis for specific pollutants, hybrid photocatalytic membranes, catalyst-support layers in electrochemical devices, and composite roles in emerging battery chemistries. The long-run upside is significant because the downstream themes are large, but the winning

products will be those that package carbon nitride into reproducible, easy-to-use forms with verified performance under realistic conditions?turning a highly flexible lab material into a dependable industrial ingredient.

Global Carbon Nitride key players include Reade Advanced Materials, Nanjing XFNANO Materials, Carbodeon, etc. Global top three manufacturers hold a share about 60%.

This report is a detailed and comprehensive analysis for global Carbon Nitride 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 Carbon Nitride market size and forecasts, in consumption value (\$ Million), sales quantity (g), and average selling prices (USD/g), 2021-2032

Global Carbon Nitride market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (g), and average selling prices (USD/g), 2021-2032

Global Carbon Nitride market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (g), and average selling prices (USD/g), 2021-2032

Global Carbon Nitride market shares of main players, shipments in revenue (\$ Million), sales quantity (g), and ASP (USD/g), 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 Carbon Nitride

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 Carbon Nitride 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 Reade Advanced Materials, Carbodeon, Nanjing XFNANO Materials, Green Science Alliance, Mknano, etc.

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

## **Market Segmentation**

Carbon Nitride 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

Solid Carbon Nitride

Carbon Nitride Solution

Market segment by Particle Size

Micron-grade

Sub-micron

Nano-grade

Market segment by Synthesis Route

Thermal Condensation

Templated Synthesis

Supramolecular Precursor Routes

Post-treated/Exfoliated Routes

Market segment by Sales Channel

Online

Offline

Market segment by Application

Photocatalyst

Coatings

Others

Major players covered

Reade Advanced Materials

Carbodeon

Nanjing XFNANO Materials

Green Science Alliance

Mknano

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 Carbon Nitride product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Carbon Nitride, with price, sales quantity, revenue, and global market share of Carbon Nitride from 2021 to 2026.

Chapter 3, the Carbon Nitride competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Carbon Nitride 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 Carbon Nitride 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 Carbon Nitride.

Chapter 14 and 15, to describe Carbon Nitride sales channel, distributors, customers, research findings and conclusion.

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