

Global Electronic-Grade Nano Titanium Dioxide 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 Electronic-Grade Nano Titanium Dioxide market size was valued at US\$ 1324 million in 2025 and is forecast to a readjusted size of US\$ 2579 million by 2032 with a CAGR of 10.2% during review period.

Electronic-grade nano-titanium dioxide is a titanium dioxide (TiO₂) powder material specifically designed for the electronics industry. It features nanoscale (typically 1-100 nm) particle sizes and ultra-high purity (typically >99.8%), primarily in the rutile crystal form. It possesses excellent dielectric properties, semiconductor characteristics, and electrical insulation. The content of impurities such as alkali metals (Na, K) and alkaline earth metals (Ca, Mg), which are detrimental to electrical performance, is strictly controlled. It is mainly used in the production of electronic components such as multilayer ceramic capacitors (MLCCs), PTC thermistors, and microwave components.

Nanoscale refers to particle sizes typically ranging from 1 to 100 nanometers (nm), resulting in higher specific surface area, stronger optical, electrical, and catalytic properties, and quantum size effects.

The crystal structure is predominantly rutile, with anatase used in a few special applications.

The upstream raw materials for electronic-grade nano-titanium dioxide include ilmenite, rutile, high-titanium slag, and titanium concentrate, while key intermediates include titanium tetrachloride (TiCl₄) and tetrabutyl titanate. The midstream is the core of the industry chain, determining product performance and quality, and mainly includes two

key stages: high-purity titanium dioxide preparation and electronic-grade nano-sizing. The downstream is the value realization end of the industry chain. Due to its high dielectric constant, excellent insulation, and stable semiconductor properties, electronic-grade nano-titanium dioxide has become a core material for high-end electronic components.

In 2025, the global sales volume of electronic-grade nano titanium dioxide is 57,200 tons, with a production capacity of approximately 73,500 tons, an average selling price of US\$22.5 per kilogram, and an average gross profit margin of 38%-42%.

This report is a detailed and comprehensive analysis for global Electronic-Grade Nano Titanium Dioxide 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 Electronic-Grade Nano Titanium Dioxide market size and forecasts, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/kg), 2021-2032

Global Electronic-Grade Nano Titanium Dioxide market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/kg), 2021-2032

Global Electronic-Grade Nano Titanium Dioxide market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/kg), 2021-2032

Global Electronic-Grade Nano Titanium Dioxide market shares of main players, shipments in revenue (\$ Million), sales quantity (Kilotons), 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 Electronic-Grade Nano Titanium Dioxide

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 Electronic-Grade Nano Titanium Dioxide 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 Chemours, Ishihara Sangyo Kaisha, Evonik Industries, Sakai Chemical, Fujitan Kasei, Sinocera, CNNC Titanium, Lomon Billions, Merck KGaA, CINKORP, etc.

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

Market Segmentation

Electronic-Grade Nano Titanium Dioxide 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

3N Grade (99.9% Purity)

3N5 Grade (99.95% Purity)

4N Grade (99.99% Purity)

4N5 Grade and Above (99.995%+ Purity)

Market segment by Crystal Structure

Rutile

Anatase

Mixed Crystal

Market segment by Preparation Processes

Gas Phase Method

Liquid Phase Method

Hydrothermal Method

Market segment by Application

MLCC

PTC Thermistor

Microwave Dielectric Ceramic

Semiconductor Packaging

Other

Major players covered

Chemours

Ishihara Sangyo Kaisha

Evonik Industries

Sakai Chemical

Fujitan Kasei

Sinocera

CNNC Titanium

Lomon Billions

Merck KGaA

CINKORP

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 Electronic-Grade Nano Titanium Dioxide product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Electronic-Grade Nano Titanium Dioxide, with price, sales quantity, revenue, and global market share of Electronic-Grade Nano Titanium Dioxide from 2021 to 2026.

Chapter 3, the Electronic-Grade Nano Titanium Dioxide competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Electronic-Grade Nano Titanium Dioxide 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 Electronic-Grade Nano Titanium Dioxide 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 Electronic-Grade Nano Titanium Dioxide.

Chapter 14 and 15, to describe Electronic-Grade Nano Titanium Dioxide sales channel, distributors, customers, research findings and conclusion.

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