

# Global Titanium Dioxide Market Analysis: Plant Capacity, Production, Process, Operating Efficiency, Demand & Supply, End-User Industries, Foreign Trade, Sales Channel, Regional Demand, Company Share, 2015-2035

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## Abstracts

The global Titanium Dioxide market has reached approximately 5000 thousand tonnes in 2021 and is expected to grow at a CAGR of 4.92% during the forecast period until 2035. A new project between Nyanza Light Metals and Avertana for the construction of a Titanium Dioxide plant at the Richards Bay industrial development zone is anticipated to be fully operational by 2024. The plant is named The Nyanza Light Metals project. This project will have an anticipated production capacity of 50 tonnes of titanium dioxide per year.

Titanium Dioxide is a white powder with the chemical formula  $TiO_2$ . It is water-insoluble and commonly used as a white pigment. Ilmenite ore is the main natural source of titanium dioxide which contains 45–60% Titanium Dioxide. Pure Titanium Dioxide can be synthesized from this ore using the sulfate or chloride processes. Other ores from which Titanium Dioxide can be extracted are anatase and rutile ores.

The Chloride process involves treating the ore with chlorine and carbon in the chloride process, resulting in titanium tetrachloride, a volatile liquid that is further refined through distillation. Titanium tetrachloride is allowed to react with oxygen and yield Titanium Dioxide as the final product. The other process, i.e., the sulfate process, involves exposing ilmenite to sulphuric acid and produce iron(II) sulfate pentahydrate and titanium oxygen sulfate ( $TiOSO_4$ ). The iron component is removed, and the titanium oxygen sulfate is further refined to produce Titanium Dioxide.

Titanium Dioxide is the most commonly used white pigment in the world. It is utilized in items including paints, coatings, sheets, inks, toothpaste, face powder, sunscreen, and food coloring because of its high refractive index. In the food industry, Titanium Dioxide is employed as a pigment as well and is found in chocolates to enhance their texture. Titanium Dioxide is readily used in cosmetics as well and displays UV absorption properties.

Growing demand for paints and coating is anticipated to be the primary driver for the expansion of the Titanium Dioxide market. Due to its light-scattering properties, it provides a vivid color to the paint. Furthermore, Titanium dioxide enhances the opacity of the paints and makes them quite glossy. Furthermore, paints with titanium dioxide as an ingredient are highly suitable for outdoor applications. The paints and coatings industry consumed approximately 40% of the global Titanium Dioxide in 2021 and is anticipated to rise further in the forecast period. The rising demand for titanium dioxide is expected to be influenced by rising needs for paints and pigments across a range of industries, including personal care, pharmaceuticals, and construction. The Titanium Dioxide market value stood around USD 15 billion in 2021 and is anticipated to reach around USD 50 billion by 2035.

Based on demand by region, Asia Pacific dominates the global Titanium Dioxide market and consumed approximately 30% of the total production in 2021. Due to urbanization, the demand for electric vehicles and automobiles is expected to fuel the demand for Titanium Dioxide in Asia Pacific region in the forecast period. In automotive coatings, titanium dioxide functions as a dispersant and offers gloss persistence on the surface of the vehicles. The USA is the largest producer of Titanium Dioxide on a global level and produced approximately 50% of the global Titanium Dioxide in 2021.

Based on the end-user industry, the Titanium Dioxide market is segmented into sectors such as Paints & Coatings, Plastic, Paper, and Others. The paints & Coatings industry is the major consumer of Titanium Dioxide. Major demands of Titanium Dioxide are also accounted by Plastic Industry and Paper Industry.

Significant companies producing the Global Titanium Dioxide are The Chemours Company, Tronox Holdings Plc, Lomon Billions Group, Venator Materials Plc, KRONOS, The Louisiana Pigment Company, LP (KRONOS-Huntsman/Tioxide JV), The Kerala Minerals & Metals Limited, Indian Rare Earths Limited (IREL), and Cochin Minerals & Rutile Ltd (CMRL).

Years considered for this report:

Historical Period: 2015- 2021

Base Year: 2021

Estimated Year: 2022

Forecast Period: 2023-2035

The objective of the Study:

To assess the demand-supply scenario of Titanium Dioxide, which covers the production, demand, and supply of Titanium Dioxide around the globe.

To analyze and forecast the market size of Titanium Dioxide.

To classify and forecast the Global Titanium Dioxide market based on end-use and regional distribution.

To examine global competitive developments such as new capacity expansions, mergers & acquisitions, etc., of the Titanium Dioxide market.

To extract data for the Global Titanium Dioxide market, primary research surveys were conducted with Titanium Dioxide manufacturers, suppliers, distributors, wholesalers, and Traders. While interviewing, the respondents were also inquired about their competitors. Through this technique, ChemAnalyst was able to include manufacturers that could not be identified due to the limitations of secondary research. Moreover, ChemAnalyst analyzed various segments and projected a positive outlook for the Global Titanium Dioxide market over the coming years.

ChemAnalyst calculated Titanium Dioxide demand around the globe by analyzing the historical data and demand forecast, which was carried out considering the production of raw material to produce Titanium Dioxide. ChemAnalyst sourced these values from industry experts and company representatives and externally validated them by analyzing the historical sales data of respective manufacturers to arrive at the overall

market size. Various secondary sources, such as company websites, association reports, annual reports, etc., were also studied by ChemAnalyst.

#### Key Target Audience:

Titanium Dioxide manufacturers and other stakeholders

Organizations, forums and alliances related to Titanium Dioxide distribution

Government bodies such as regulating authorities and policy makers

Market research organizations and consulting companies

The study is useful in providing answers to several critical questions that are important for industry stakeholders such as Titanium Dioxide manufacturers, customers and policy makers. The study would also help them to target the growing segments over the coming years, thereby aiding the stakeholders in taking investment decisions and facilitating their expansion.

#### Report Scope:

In this report, Global Titanium Dioxide market has been segmented into following categories, in addition to the industry trends which have also been detailed below:

Market, by End-use: Paints & Coatings, Plastic, Paper, and Others.

Market, by Sales Channel: Direct Sale and Indirect Sale

Market, by Region: North America, Europe, Asia Pacific, Middle East and Africa, and South America.

#### Available Customizations:

With the given market data, ChemAnalyst offers customizations according to a company's specific needs.

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### **1. CAPACITY BY COMPANY**

On our online platform, you can stay up to date with essential manufacturers and their current and future operation capacity on a practically real-time basis for Titanium Dioxide.

### **2. CAPACITY BY LOCATION**

To better understand the regional supply of Titanium Dioxide by analyzing its manufacturers' location-based capacity.

### **3. CAPACITY BY PROCESS**

To evaluate the demand of various methods and their capacities while looking for the future growth of each process.

### **4. PRODUCTION BY COMPANY**

Study the historical annual production of Titanium Dioxide by the leading players and forecast how it will grow in the coming years.

### **5. DEMAND BY END- USE**

Discover which end-user industry (Paints & Coatings, Plastic, Paper, and Others) are creating a market and the forecast for the growth of the Titanium Dioxide market.

### **6. DEMAND BY REGION**

Analyzing the change in demand of Titanium Dioxide in different regions, i.e., North America, Europe, Asia Pacific, Middle East and Africa, and South America, that can direct you in mapping the regional demand.

### **7. DEMAND BY SALES CHANNEL (DIRECT AND INDIRECT)**

Multiple channels are used to sell Titanium Dioxide. Our sales channel will help in analyzing whether distributors and dealers or direct sales make up most of the industry's sales.

## **8. DEMAND-SUPPLY GAP**

Determine the supply-demand gap to gain information about the trade surplus or deficiency of Titanium Dioxide.

## **9. COMPANY SHARE**

Figure out what proportion of the market share of Titanium Dioxide is currently held by leading players across the globe.

## **10. COUNTRY-WISE EXPORT**

Get details about quantity of Titanium Dioxide exported by major countries.

## **11. COUNTRY-WISE IMPORT**

Get details about quantity of Titanium Dioxide imported by major countries.

## **12. PRICING ANALYSIS & FORECAST**

Analyze historical prices since 2015 & Forecast on three months rolling period for next 12 months.

Years considered for this report:

Historical Period: 2015- 2022

Base Year: 2022

Estimated Year: 2023

Forecast Period: 2024-2032

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