

Global Titanium Dioxide (TiO₂) Market Outlook to 2027

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Abstracts

Titanium Dioxide, TiO₂ is a white-colored non-toxic inorganic compound, in its pure form, it is a fine, white powder that renders a bright and white pigment that primarily works as a UV filter and a bleaching agent. According to BlueQuark Research & Consulting, the global Titanium Dioxide market is expected to witness a significant growth rate during the forecasted period. Factors like the growing use of Titanium Oxide in the Paints and coatings industry, where it's used as a durable coating to resist UV radiation and prevent the exterior surfaces from color fading, chalking, and cracking, is expected to drive the Global Titanium Oxide Market. Further, the use of Titanium Dioxide in the Cosmetics Industry as an aid in hiding blemishes, brightening the skin, and the fact that TiO₂ does not penetrate the skin, is projected to drive the global Titanium dioxide market. Furthermore, the use of TiO₂ in outdoor plastics due to properties such as high UV-absorptive and light scattering power is expected to drive the Global Titanium Dioxide Market. However, factors like the fluctuating raw material prices, the health concerns related to the eye contact and inhalation of TiO₂, and stringent government regulations towards waste treatment are expected to hinder the Global Titanium Dioxide market growth.

Titanium Dioxide is used as an inorganic bleaching and staining agent that has found application in paints, coatings, adhesives, paper, plastics and rubber, printing inks, coated fabrics, and textiles, as well as ceramics, floor coverings, roofing materials, cosmetics, toothpaste, soap, water treatment agents, pharmaceuticals, food colorants, automotive products, architectural coatings, automotive coatings, general industrial finishes, powder coatings, waterborne paints, protective coatings, wood finishes, sunscreen, and catalysts.

The Paints and Coatings Industry is the primary user of Titanium Dioxide where it used to increase the opacity and durability, to ensure the longevity of the paint, opacity, whiteness, scattering of light, high refractive index, and protection of the painted surface

is expected to drive the Global Titanium Dioxide Market. Titanium Dioxide provides a durable coating that can resist UV rays from the sun and maintain a newly painted look for an extended period. Titanium dioxide is used in coatings meant for outer surfaces for better color fading, chalking, and cracking resistance. Further, it has a unique photocatalyst ability that enables self-cleaning and protects against bacteria, algae, fungi, and air pollution. The use of TiO₂ in paints and coatings ensures not only the ease of application but also a long-lasting fresh look, fewer coatings, and easy cleaning surfaces, thus driving the global market. Furthermore, the use of Titanium Dioxide as a coating on automobiles to prevent corrosion and shield critical components is expected to drive the industry. These factors drive the demand for interior decoration and home renovation, leading to the growing demand for decorative paints, which, in turn, accelerates the growth of the TiO₂ market for the Paints and Coatings Industry.

Some of the market's key players are The Chemours Company, Tronox Holdings plc, LB Group Co. Ltd., Venator Materials PLC, Kronos Worldwide, Inc., Ineos Group Ltd., Cinkarna Celje, among others.

The Asia Pacific region is the most prominent consumer of Titanium Dioxide globally, with its use expected to grow, with primary consumption in populated areas and countries, including South Asia and China. With millions of residents residing in the region, the requirement for constructing homes is enormous, and with the use of TiO₂ in making paints and coatings, the regional demand is expected to grow. Further, the use of Titanium Dioxide in the pulp & paper segment in the production of decorative foils and decor & magazine papers improves brightness, opacity, color, porosity, smoothness, gloss, and printability of paper is projected to drive the regional market. Titanium Dioxide properties such as excellent transparency, better dispersibility, and more effective ultraviolet (UV) scattering and absorbing properties have made way for the use of TiO₂ in the cosmetics industry, such as creams, loose and pressed powders, eye shadows, blush, and sunscreens, thus driving the regional demand. The region is the center for automotive sale and production, with the use of TiO₂ in the coatings in automobiles as a dispersive agent with maximum gloss retention and high chalk resistance has made it an essential compound for use. Furthermore, the use of TiO₂ on plastics which are then used in automobiles is expected to drive the demand for the chemical due to the preference of plastics as a lightweight and cost-effective metal alternative. Thus, all the factors have made the Asia Pacific a vital region for Titanium Dioxide.

In September 2021, Minerals Development Oman (MDO) signed an agreement to build a titanium dioxide production plant in Sohar Free Zone, Oman, in 120,000 square meters,

with a capacity of 150,000 tonnes per year.

In August 2021, Allox Minerals wants to scale up lithium titanium oxide (LTO) anode material production for electric vehicle batteries as demand rises.

In June 2021, Rio Tinto started operations at the newly constructed scandium oxide commercial demonstration plant at its Fer et Titane (RTFT) metallurgical complex in Quebec, with a capacity of 3 t/yr of 99.99pc scandium oxide. Scandium is extracted from waste streams from titanium dioxide production.

Global Titanium Dioxide Market report provides deep insight into the Industrial market's current and future state across various regions. The study comprehensively analyses the Titanium Dioxide market by segmenting based on the Grade (Rutile, Anatase), Product (Pigmentary, Ultrafine), Process (Chloride, Sulfate), End-Use Industries (Paints and Coatings, Cosmetics, Plastics, Others), and Geography (Asia-Pacific, North America, Europe, South America, and Middle-East and Africa). The report examines the market drivers and restraints and the impact of Covid-19 on the market growth in detail. The study covers and includes emerging market trends, developments, opportunities, and challenges in the industry. This report also covers extensively researched competitive landscape sections with prominent companies and profiles, including their market shares and projects.

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plc

Co. Ltd.

Materials PLC

Worldwide, Inc.

Group Ltd

Celje

Industries AG

CORPORATION

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A SANGYO KAISHA, LTD.

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Group Vanadium Titanium & Resources Co., Ltd.

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