

Nanoparticle Titanium Dioxide Market by Type (Rutile, Anatase, and Combination of Rutile & Anatase) and Application (Paints & Coatings, Pigments, Cosmetics, Plastics, Energy, and Others): Global Opportunity Analysis and Industry Forecast, 2021-2030

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Abstracts

The global nanoparticle titanium dioxide market was valued at \$9.7 billion in 2020, and is projected to reach \$17.3 billion by 2030, growing at a CAGR of 6.1% from 2021 to 2030.

Nanoparticle titanium dioxide is a chemically inert and transparent substance with many important and diversified applications in paints and coatings, pigments, plastics, and cosmetics. It has an average particle size of less than 100 nm and exhibits good thermal and chemical stability. Due to small size of particles and higher surface area, nanoparticle titanium dioxide finds application in many sectors. It also finds use in several environmental and biomedical applications, such as photocatalytic degradation of pollutants, water purification, bio-sensing, and drug delivery.

The nanoparticle titanium dioxide market is currently in its growth stage with paints & coatings and cosmetics covering more than half of the market. The product has high demand in Europe, the U.S., and emerging economies such as China and India. The global nanoparticle titanium dioxide market is expected to register substantial growth in the near future, owing to rise in demand in numerous applications and government support for research & development to find new commercial avenues. However, factors such as toxicity at a certain amount along with high cost are expected to restrain growth of this market.

However, toxicity at higher concentration and adverse effect of nanoparticle titanium

dioxide on marine life and environment are expected to hamper growth of the nanoparticle titanium dioxide market during the forecast period. Furthermore, expanding paints & coatings, pigments, and cosmetic markets and increasing disposable income in emerging economies is expected to provide growth opportunities for nanoparticle titanium dioxide market participants during the forecast period.

The global nanoparticle titanium dioxide market is segmented on the basis of type, application, and region. By type, it is segmented into rutile, anatase, and combination of rutile & anatase. By application, it is divided into paints & coatings, pigments, cosmetics, plastics, energy, and others. Region-wise, it is studied across North America, Europe, Asia-Pacific, and LAMEA.

The major player studied and profiled in the global nanoparticle titanium dioxide market include BASF SE, Cabot Corporation, Cinkarna Celje d.d., Croda International Plc, DuPont, Evonik Industries AG, Kronos Worldwide, Inc., Tayca Corporation, The Chemours Company, Tronox Inc., and Venator Materials Plc.

COVID-19 analysis:

According to the International Monetary Fund (IMF), owing to the outbreak of novel coronavirus (COVID-19), the global economy shrunk by 3.0% in 2020. Many countries are under strict lockdowns, which have forced several sectors to shut down their operations. This has halted manufacturing activities and reduced demand and production of nanoparticle titanium dioxide.

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Attributed to the COVID-19 pandemic, the paints & coatings manufacturing units across various countries have been shut down amid lockdown imposed by governments of various countries across the globe. As a result, demand for nanoparticle titanium dioxide as additive for formulation of paints has declined significantly, which declines growth of the market during the forecast period.

Attributed to the outbreak of COVID-19 pandemic, the construction of various residential, commercial, and industrial projects has been halted amid lockdown. As a result, demand from cement industry has been declined, which led to downfall of its production. In addition, amid lockdown, various cement plants and production activities were shut down, which resulted in decline in demand for nanoparticle titanium dioxide as additive in manufacturing of cement.

Nanoparticle titanium dioxide is widely used in the plastic industry as additive. The plastic industry has been affected badly amid the lockdown imposed due to the COVID-19 outbreak, resulting in shutdown of production activities. As a result, demand for nanoparticle titanium dioxide has been declined significantly, and this trend is expected to continue till the imposed lockdown continues across various countries in the world.

The COVID-19 pandemic has changed the consumer buying pattern and made consumers conservative, leading to decline in their spending for

non-essentials products. Nationwide lockdowns and social distancing measures implemented by leading countries, such as India, the UK, Italy, Spain, and Russia, have negatively impacted the demand of cosmetics in these countries. During the COVID-19 pandemic, the cosmetic sales of major cosmetic manufacturers, Kao Corporation and Revlon Inc., decreased by 11.4% and 18.1%, respectively, in the first quarter of 2020 as compared to the first quarter of 2019. Therefore, the demand of nanoparticle titanium dioxide declined significantly due to decrease in demand for cosmetics during the pandemic.

The demand for pigments was negatively impacted due to COVID-19 in 2020. The disruption in the global supply chain, coupled with reduced demand from various end-user industries

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Key benefits for stakeholders

Porter's five forces analysis helps analyze the potential of buyers & suppliers and the competitive scenario of the industry for strategy building.

The report outlines the current trends and future scenario of the global nanoparticle titanium dioxide market from 2020 to 2030 to understand the prevailing opportunities and potential investment pockets.

Major countries in major regions have been mapped according to their individual revenue contribution to the regional market.

The key drivers, restraints, & opportunities and their detailed impact analysis are explained in the global nanoparticle titanium dioxide market study.

The profiles of key players and with their key strategic developments are enlisted in the global nanoparticle titanium dioxide market report.

Key market segments

By Type

Rutile

Anatase

By Application

Paints & Coatings

Pigments

Cosmetics

Plastics

Energy

Others

By Region

North America

U.S.

Canada

Mexico

Europe

Germany

France

Italy

Spain

UK

Rest of Europe

Asia-Pacific

China

Japan

South Korea

India

Australia

Rest of Asia-Pacific

LAMEA

Brazil

Saudi Arabia

South Africa

Rest of LAMEA

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