

# Global Nano Titanium Dioxide Dispersion Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G3F1A0B3E526EN.html>

Date: June 2026

Pages: 119

Price: US\$ 3,480.00 (Single User License)

ID: G3F1A0B3E526EN

## Abstracts

According to our (Global Info Research) latest study, the global Nano Titanium Dioxide Dispersion market size was valued at US\$ 850 million in 2025 and is forecast to a readjusted size of US\$ 1289 million by 2032 with a CAGR of 6.2% during review period.

Nano-titanium dioxide dispersion is a material in which nano-sized titanium dioxide particles are uniformly and stably dispersed in solvents such as water or oil. It possesses properties such as strong photocatalysis, high UV shielding, antibacterial and antifungal effects, and high transparency. It exists in liquid form and is mainly used in industries such as coatings, cosmetics (sunscreen), self-cleaning materials, and wastewater treatment, exhibiting excellent film-forming properties. Common crystal forms of nano-TiO<sub>2</sub> particles include anatase, rutile, and anatase-rutile mixed crystals, with particle sizes typically ranging from 5nm to 30nm, belonging to the micro-nano scale. The dispersant ensures long-term uniform suspension of the particles in the liquid, preventing agglomeration. It exhibits strong chemical stability, resistance to acids and alkalis, and oxidation, making it suitable for various functional material applications.

The upstream sector primarily includes suppliers of basic materials and production equipment such as nano-titanium dioxide powder raw materials (anatase, rutile, and mixed crystal types), dispersants, surface modifiers, solvents (aqueous or organic), pH adjusters, and ultrasonic, sand milling, and grinding equipment, ensuring the high dispersibility and stability of the dispersion. The midstream sector comprises manufacturers of nano-titanium dioxide dispersions. Through processes such as nano-powder preparation, surface modification, dispersion stabilization, and ultrasonic/sand milling, they uniformly disperse TiO<sub>2</sub> particles in aqueous or organic systems, forming high-performance dispersion products suitable for different particle sizes, solid contents,

and functional requirements. The downstream sector is mainly used in coatings, plastics, functional ceramics, lithium battery separator coatings, photocatalytic materials, cosmetics, electronic packaging, and high-end optical materials.

In 2025, global sales of nano-titanium dioxide dispersions reached 81,000 tons, with a production capacity of approximately 115,000 tons, an average selling price of US\$10,200 per ton, and an average gross profit margin of 25%-32%.

The demand for nano-titanium dioxide dispersions is showing a diversified development trend. In traditional coatings, plastics, and functional coatings, nano-TiO<sub>2</sub> dispersions are mainly used to improve hiding power, weather resistance, and UV resistance. In photocatalysis and environmental protection materials, their high specific surface area and photoactivity make them ideal raw materials for air purification, water treatment, and antibacterial coatings. In cosmetics, they are widely used as sunscreens and light-blocking agents. In the electronics and semiconductor industry, the demand for high-purity nano-TiO<sub>2</sub> dispersions is growing significantly in thermal conductive materials, electronic packaging, and CMP polishing slurries. In the future, new energy vehicle diaphragm coatings and AI server heat dissipation materials will become important emerging applications driving the growth of nano-TiO<sub>2</sub> dispersions.

The technological roadmap for nano-titanium dioxide dispersions is evolving from traditional systems with larger particle sizes and generally lower stability towards smaller particle sizes, higher purity, higher stability, and functionalization. Early research focused primarily on dispersion stability and anti-agglomeration properties, while current technological priorities include particle size control (

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