

TITANIUM OXIDE NANOPOWDER

Coated with Silicon oil



Purity
99.9%

TiO₂



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NS6130-03-355

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TiO₂ is available in the form of nanocrystals or nanodots having a high surface area. They exhibit magnetic properties. Titanium belongs to Block D, Period 4 while oxygen belongs to Block P, Period 2 of the periodic table. Titanium oxide is also known as flamenco, rutile, titanium dioxide and dioxotitanium. Titanium Dioxide nanoparticles are known for their ability to inhibit bacterial growth and prevent further formation of cell structures.

In recent years, metal oxide nanoparticles have attracted much attention by their potential application in diverse fields including catalysis, magnetic recording media, microelectronics and medicine. For example, TiO₂ nanoparticles are very important due to their various applications like removing the environmental pollution, sterilization and restraining virus, defending UV, keep rust away, and de-pigment. TiO₂ is mostly used as white pigment because of its high diffraction index, strong light scattering, incident-light reflection capability and a high UV resistance that make TiO₂ the standard pigment found in white dispersion paints with high hiding power

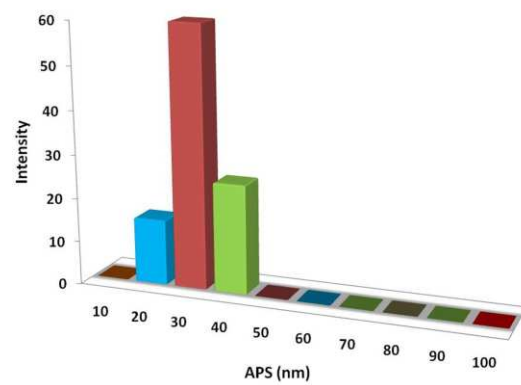
QuickFACTS

Product	: Coated with Silicon oil Titanium Oxide Nanopowder
Stock No	: NS6130-03-355
CAS	: 13463-67-7
Color	: White
Form	: Powder
Symbol	: TiO ₂
Group	: Titanium 4/Oxygen 16

Electronic Configuration:

Titanium [Ar] 3d² 4s²

Oxygen [He] 2s² 2p⁴



ADDITIONAL POWDER CHARACTERISTICS

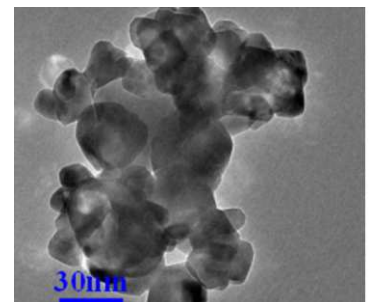
Stock No.	Purity	APS
NS6130-03-355	99.9%	30nm

TECHNICAL SPECIFICATION

Molecular Formula	Molecular Weight	Density	Melting Point
TiO ₂	79.866 g/mol	4.23 g/cm ³	1843 °C

CHEMICAL COMPOSITION

Product	Weight Percent (nominal)	
	TiO ₂	Other Metal
Titanium Oxide Nanopowder	99.9%	1000ppm



APPLICATIONS

- > Utilized as UV-resistant material, Photocatalyst, antibacterial material
- > Employed in chemical fiber, plastics, printing ink, coating
- > In the self-cleaning glass, self-cleaning ceramics, air purification, sewage treatment
- > In the chemical industry
- > utilized in Cosmetics
- > used in foods packing material
- > utilized in coating for paper-making industry
- > Astronautics industry



ISO 9001:2015
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