

TITANIUM OXIDE NANOPOWDER

Coated with Silicon and Alumina



Purity
99.9%

TiO_2



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NS6130-03-354

Coated with Silicon and Alumina

TITANIUM OXIDE NANOPOWDER

Nanoparticles research presents a wide scope for the development of novel solutions in the field of healthcare, cosmetics, optics, and electronics. Altering the molecular and atomic states of nanoparticles results in unexpected outcomes, which may not be possible by using the materials in their original states. Titanium Dioxide nanoparticles are known for their ability to inhibit bacterial growth and prevent further formation of cell structures.

TiO₂ is a highly insoluble thermally stable. Titanium is suitable for glass, optic and ceramic applications. Oxide compounds are not conductive to electricity. Currently, they are mainly found in high-factor sun protection creams, textile fibers or wood preservatives. For a long time, sun creams have been manufactured adding titanium oxide microparticles that gave the products a pasty, sticky consistency. TiO₂ is mostly used as a 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.

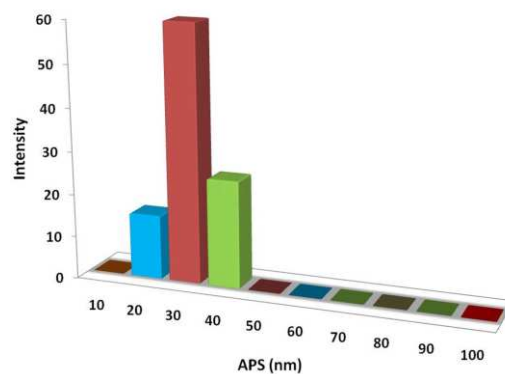
QuickFACTS

Product	:	Titanium Oxide Nanopowder Coated with Silicon and Alumina
Stock No	:	NS6130-03-354
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

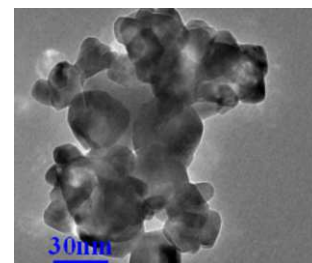
Stock No.	Purity	APS
NS6130-03-354	99.9%	30nm

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

- > Photo catalytic Applications
- > Environmental improvement applications
- > In paints,
- > In plastics,
- > In paper technology
- > In foods
- > Used in sunscreens
- > Used as a welding electrode



20ZICE4589C



19ZAZGO1274G



20ZICE4588M

ISO 9001:2015
CERTIFIED COMPANY

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