

TITANIUM OXIDE NANOPOWDER

Coated with Silicon



Purity
99.9%

TiO_2



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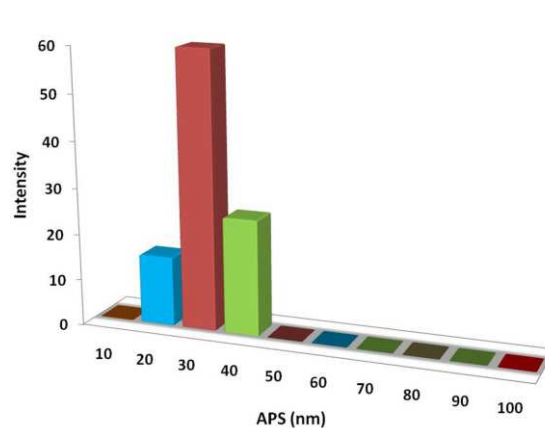
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NS6130-03-353

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TITANIUM OXIDE NANOPOWDER

Nanoscale TiO₂ that is manufactured for specific applications is by approximately a factor of 100 finer than the TiO₂ pigments and has other physical properties. 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 micro particles that gave the products a pasty, sticky consistency. TiO₂ is a highly insoluble thermally stable. They are typically insoluble in aqueous solutions (water) and extremely stable making them useful in ceramic structures as simple as producing clay bowls to advanced electronics in light weight structural components in aerospace and electrochemical applications such as fuel cells in which they exhibit ionic conductivity. Metal oxide compounds are basic anhydrides and can therefore react with acids as well as with strong reducing agents in redox reactions. 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



ADDITIONAL POWDER CHARACTERISTICS

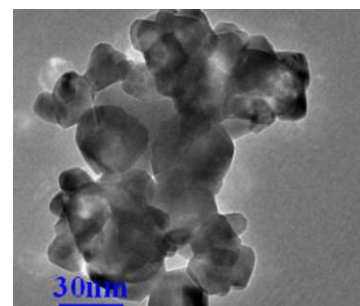
Stock No.	Purity	APS
NS6130-03-353	99.9%	30nm

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



QuickFACTS

Product	:	Titanium Oxide Nanopowder
Stock No	:	NS6130-03-353
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

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.



20ZICE4589C



19ZAZGO1274G



20ZICE4588M

ISO 9001:2015
CERTIFIED COMPANY

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