



# TITANIUM

DIOXIDE NANOPOWDER

    /nanoshel

[www.nanoshel.com](http://www.nanoshel.com) | [sales@nanoshel.com](mailto:sales@nanoshel.com)

Tel: 91+9779550077,9779238252

# TITANIUM

## DIOXIDE NANOPOWDER

Nanoscale  $\text{TiO}_2$  that is manufactured for specific applications is by approximately a factor of 100 finer than the  $\text{TiO}_2$  pigments and has other physical properties. The production volume of nanoscale Titanium oxide amounts to less than 1 percent that of  $\text{TiO}_2$  pigments. Nanoscale titanium oxides are not used as food additives. 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. Leaving a visible film, application of such sun creams was not easy and not pleasing to the skin. Sun creams that contain the transparent nanoscale  $\text{TiO}_2$  can be applied much more easily. In addition, their protective effect against harmful UV radiation is much better. At present, high sun protection factors can only be achieved using nanoscale  $\text{TiO}_2$ .



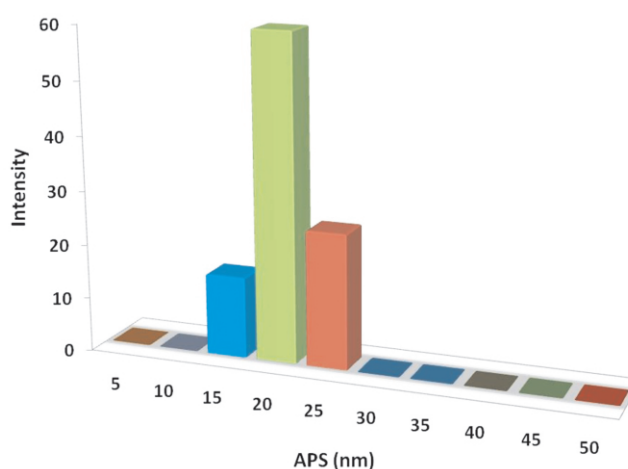
### Quick FACTS

Product	: Titanium Dioxide Nanopowder
Stock No	: NS6130-03-350
CAS	: 1317-70-0
Color	: White
Form	: Powder

# APPLICATIONS



- ✓ Based in antiseptic and antibacterial compositions
- ✓ Degrading organic contaminants and germs
- ✓ As a UV-resistant material
- ✓ Manufacture of printing ink, self-cleaning ceramics and glass, coating, etc.
- ✓ Used in the paper industry for improving the opacity of paper.
- ✓ In Cosmetics
- ✓ In self-cleaning materials
- ✓ Employed in coatings
- ✓ Air filtration
- ✓ Used in the production of fibres
- ✓ Utilized in inks and glass
- ✓ Astronautics industry



## Additional Powder Characteristics

Stock No.	Purity	APS
NS6130-03-350	99.9%	10-25nm

## Technical Specification

Molecular Formula	Molecular Weight	Density	Melting Point	Boiling Point
TiO <sub>2</sub>	79.86 g/mol	3.9 g/cm <sup>3</sup>	1843 °C	2972 °C



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**CE** ISO 9001:2015  
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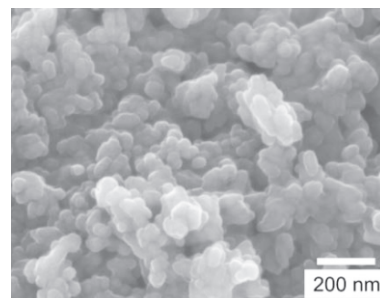
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# Chemical Composition

Product	Weight Percent (nominal)	
	TiO <sub>2</sub>	Other Metal
Titanium Dioxide Nanopowder	99.9 %	750 ppm

## Properties

- ✓ Chemical Symbol: TiO<sub>2</sub>
- ✓ CAS No.: 1317-70-0
- ✓ Group : Titanium 4 Oxygen 16
- ✓ Electronic configuration: Titanium [Ar] 3d<sup>2</sup> 4s<sup>2</sup> Oxygen [He] 2s<sup>2</sup> 2p<sup>4</sup>



## Ordering Information and Stock Availability

- ✓ Product: Titanium Dioxide Nanopowder
- ✓ Stock Availability: Available
- ✓ Distribution: Global
- ✓ Packing Sizes: 25Gms, 50Gms, 100Gms, 500Gms & Bulk Orders

### Handling Recommendations

- ✓ Store in the original container in a dry location.
- ✓ Tumble contents prior to use to prevent segregation.
- ✓ Open containers should be stored in a drying oven to prevent moisture pickup.

### Safety Recommendations

Download MSDS/SDS NS6130-03-350

SDS are available from the Nanoshel

Website at

<https://www.nanoshel.com/sections/oxide-nanopowder>