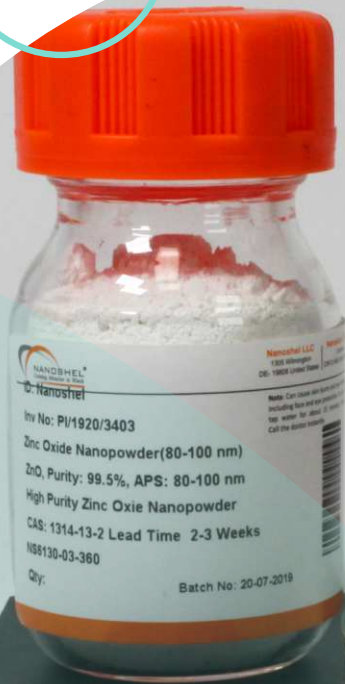


ZINC OXIDE NANOPOWDER







Purity
99.5%

ZnO



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NS6130-03-362

NEXT 

ZINC OXIDE NANOPOWDER

Zinc oxide is an inorganic compound and its chemical formula ZnO. It is usually insoluble in water and appears as a white powder. Zinc oxide crystallizes in three different forms: hexagonal wurtzite, cubic zincblende, and the rarely observed cubic rocksalt. In materials science, ZnO is often called an II-VI semiconductor because zinc and oxygen belong to the 2nd and 6th groups of the periodic table, respectively. This semiconductor shows several favorable properties: good transparency, wide bandgap, high electron mobility, strong room-temperature luminescence, etc. These nanoparticles manifest antibacterial, anti-corrosive, antifungal and UV filtering properties.

The powder is widely utilized as an additive into ample of materials and also employed in products for instance plastics, ceramics, glass, cement, rubber (e.g. car tires), lubricants, paints, ointments, adhesives, sealants, pigments, foods (source of Zn nutrient), batteries, ferrites, fire retardants, etc. Zincite is a mineral which is present in the earth crust. However, most ZnO employed commercially is produced synthetically. These nanoparticles are used in display applications for instance as transparent electrodes in liquid crystal displays and also used in energy-saving or heat-protecting windows.

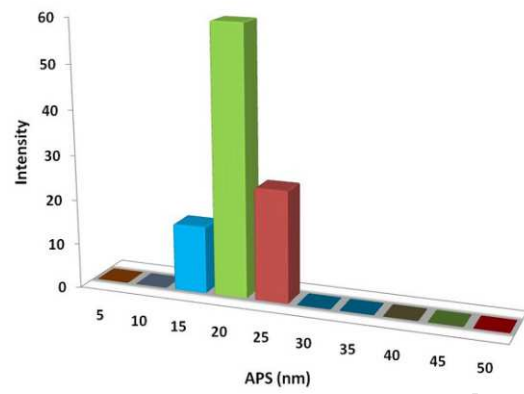
QuickFACTS

Product	:	Zinc Oxide Nanopowder
Stock No	:	NS6130-03-362
CAS	:	1314-13-2
Color	:	White or Pale yellow
Form	:	Powder
Symbol	:	ZnO
Group	:	Zinc 12/Oxygen 16

Electronic Configuration:

Zinc [Ar] 3d104s2

Oxygen [He] 2s2 2p4



ADDITIONAL POWDER CHARACTERISTICS

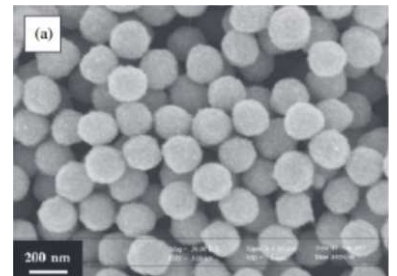
Stock No.	Purity	APS
NS6130-03-362	99.5%	10-30nm

TECHNICAL SPECIFICATION

Molecular Formula	Molecular Weight	Density	Melting Point
ZnO	81.38 g/mol	5.6 g/cm ³	2360 °C

CHEMICAL COMPOSITION

Product	Weight Percent (nominal)	
	ZnO	Other Metal
Zinc Oxide Nanopowder	99.5%	4000ppm



APPLICATIONS

- > Used in the manufacture of rubber and cigarettes (used as a filter)
- > Utilized in Cosmetics
- > Employed as an additive in the manufacture of concrete
- > Used in Ceramic industry
- > Used as an additive in food products such as cereals
- > Utilized in Various paints as a coating agent.



20ZICE4589C



19ZAZGO1274G



20ZICE4588M

ISO 9001:2015
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