

ZINC OXIDE NANOPOWDER

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f @ X in

99.5%
Purity

35-45nm
APS

ZnO

NS6130-03-361

Zinc oxide (ZnO) is an inorganic compound, usually insoluble in water, appearing as a white powder. It crystallizes in hexagonal wurtzite, cubic zincblende, and cubic rocksalt forms. In materials science, it's referred to as an II-VI semiconductor due to zinc and oxygen's positions on the periodic table. ZnO exhibits transparency, wide bandgap, high electron mobility, and luminescence. Its nanoparticles have antibacterial, anti-corrosive, antifungal, and UV filtering properties. Widely used in various materials like plastics, ceramics, glass, cement, rubber, lubricants, paints, adhesives, sealants, pigments, foods, batteries, ferrites, and fire retardants. Commercially produced synthetically, it's used in displays and energy-saving windows.

QUICK FACTS

CAS : 1314-13-2
Purity : 99.5%
APS : 35-45nm
Color : White or
-Pale yellow
Form : Powder

TECHNICAL SPECIFICATION

Molecular Formula : ZnO
Molecular Weight : 81.38 g/mol
Density : 5.6 g/cm³
Melting Point : 1975 °C

APPLICATIONS

- Rubber and Cigarettes
- Cosmetics
- Additive in the concrete
- Ceramic
- Food products



20ZICE4589C



19ZAZGO1274G



20ZICE4588M

ISO 9001:2015
CERTIFIED COMPANY

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