ZINC OXIDE
NANOPOWDER

Purity 99.9%

ZnO

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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.

Quick Facts

Product : Zinc Oxide Nanopowder
Stock No : NS6130-03-360
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

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.