

**NS6130-02-288**

# Zinc Sulfide Nanoparticles

## Quick Facts

Product	:	Zinc Sulfide Nanoparticles
Stock No	:	NS6130-02-288
CAS	:	1314-98-3
Molecular Formula	:	ZnS
Form	:	Powder

**Purity**  
99.9%

## Technical Specification

Molecular Weight	Density	Melting Point	APS
97.47g/mol	4.09 g/cm <sup>3</sup>	1185 °C	<100nm

Zinc sulfide is an inorganic compound with the chemical formula ZnS. Zinc sulfide is transparent and white in color. It is usually produced from waste materials, and it is also a by-product of ammonia synthesis using methane. Zinc sulfide is also used as an infrared optical material, transmitting from visible wavelengths to just over 12 micrometers. It can be used planar as an optical window or shaped into a lens. It is produced at a relatively low cost so many of its applications are as a substitute for other materials. ZnS is a gray or off white powder that is insoluble in water, but soluble in acid.

## Application

- ✓ It is commonly used as a white pigment
- ✓ Detector of alpha-rays, which render it luminescent
- ✓ Infrared optics
- ✓ It is used as phosphor in several applications, including X-ray screens and cathode ray tubes.



**ZnS**  
APS <100nm



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