

# MANGANESE DOPED Zinc Sulfide Powder

**99%**  
(Purity)



Stock no:  
**NS6130-12-001212**

## Chemical Identifiers

Purity	:	99%
Chemical name	:	ZnS:Mn
APS	:	10-14µm

## Applications

- ✓ Consumer electronics
- ✓ Embedded systems
- ✓ Thermal conductivity
- ✓ Lighting and LED displays
- ✓ Solar cells

In semiconductor production, doping is the intentional introduction of impurities into an intrinsic semiconductor for the purpose of modulating its electrical, optical and structural properties. The doped material is referred to as an extrinsic semiconductor.

Small numbers of dopant atoms can change the ability of a semiconductor to conduct electricity. When on the order of one dopant atom is added per 100 million atoms, the doping is said to be low or light. When many more dopant atoms are added, on the order of one per ten thousand atoms, the doping is referred to as high or heavy. This is often shown as n+ for n-type doping or p+ for p-type doping. A semiconductor doped to such high levels that it acts more like a conductor than a semiconductor is referred to as a degenerate semiconductor. A semiconductor can be considered i-type semiconductor if it has been doped in equal quantities of p and n.



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