

Material Data Sheet: Zinc Tin Oxide

Zinc Tin Oxide (ZTO)

Version 1.2, Last Updated: 11/21/2025

1. Identification and Purity

Trade Name / Abbreviation	ZTO
Chemical Formula	Zn ₁₀ SnO ₁₂
SCI Part Number	X030050001XXXXZ35
Purity	99.95%

2. Physical and Mechanical Properties

Property	Value	Measurement / Units
Density (Bulk)	5.81	g/cm ³
Density (Sintered)	5.69	g/cm ³
Melting / Sublimation	—	°C / °F
Hardness	~ 5	Mohs Scale
Mechanical Stress / Modulus	—	MPa / GPa
Band Gap / Electrical Type	Between 3.4eV–3.8eV	eV / Semimetal
Configuration	Planar & Rotary	Target Type
Backing Plate Compatibility	Planar: Copper (Cu) or Molybdenum (Mo) / Rotary: Stainless Steel	Compatibility Notes
General Comments	High-performance oxide for transparent electronics.	—

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