

AgSnO₂

CADMIUM-FREE / RoHS

Silver Tin Oxide

The cadmium-free, RoHS-compliant successor to AgCdO. The tin-oxide dispersion (often with minor In₂O₃ / Bi₂O₃ / WO₃ additives) resists welding and material transfer exceptionally well and stands up to DC and high making-current duty, making it the modern default for many contactors and switching devices.

COMPOSITION

Silver (Ag)	balance
Tin oxide (SnO ₂)	10 – 12%
Additives (In ₂ O ₃ / Bi ₂ O ₃ / WO ₃)	minor, optional

AVAILABLE GRADES

AgSnO₂ 88/12, 90/10 (powder metallurgical)

FORMS SUPPLIED

Wire, Tips / tape, Contact rivets

TYPICAL APPLICATIONS

- Modern contactors and motor starters
- DC switching and high making-current duty
- Switches and protective devices (RoHS designs)

QUALITY & STANDARDS

Supplied under IATF 16949:2016 / ISO 9001:2015 quality systems. Cadmium-free, RoHS compliant.

TYPICAL PROPERTIES

Density	~9.8–10.0 g/cm ³
Electrical conductivity (88/12)	~62–65 %IACS
Hardness	~80–110 HV
Melting point (Ag matrix)	~960 °C
SnO ₂ content	10 – 12%