

AgCdO

CONTAINS CADMIUM

Silver Cadmium Oxide

The long-established workhorse of the switchgear industry. The dispersed cadmium-oxide phase gives outstanding arc-erosion and anti-weld behaviour across a wide current range, with low and stable contact resistance. Note: AgCdO contains cadmium and is restricted under RoHS in many markets — AgSnO₂ is the recommended cadmium-free replacement.

COMPOSITION

Silver (Ag)	balance
Cadmium oxide (CdO)	10 – 15%

AVAILABLE GRADES

AgCdO 90/10, 88/12, 85/15 (internally oxidised)

FORMS SUPPLIED

Wire, Tips / tape, Contact rivets, Overlay buttons

TYPICAL PROPERTIES

Density (90/10)	~10.2 g/cm ³
Electrical conductivity (90/10)	~84 %IACS
Thermal conductivity	~315–360 W/(m·K)
Hardness	~65–95 HV
Melting point (Ag matrix)	~960 °C
CdO content	10 – 15%

TYPICAL APPLICATIONS

- Contactors and motor starters
- Relays and switches
- AC switching across a wide load range

QUALITY & STANDARDS

Supplied under IATF 16949:2016 / ISO 9001:2015 quality systems. Contains cadmium — RoHS-restricted; see AgSnO₂ for a cadmium-free alternative.