



Ag <sub>2</sub> SnO <sub>3</sub> Ag <sub>2</sub> SnO <sub>3</sub> In <sub>2</sub> O <sub>3</sub>	
<b>Overview</b>	Ag <sub>2</sub> SnO <sub>3</sub> /Ag <sub>2</sub> SnO <sub>3</sub> In <sub>2</sub> O <sub>3</sub> is an environmentally friendly electrical contact material, has replaced AgCSD in many areas. Ag <sub>2</sub> SnO <sub>3</sub> /Ag <sub>2</sub> SnO <sub>3</sub> In <sub>2</sub> O <sub>3</sub> has good resistance to burnout and anti-melting welding.
<b>Application</b>	Widely used in all kinds of contactors, relays, circuit breakers and switches.
Material Properties	
Ag <sub>2</sub> SnO <sub>3</sub>	
Type	18Ag <sub>2</sub> SnO <sub>3</sub> 88Ag <sub>2</sub> SnO <sub>3</sub> 98Ag <sub>2</sub> SnO <sub>3</sub> 44Ag <sub>2</sub> SnO <sub>3</sub> 49Ag <sub>2</sub> SnO <sub>3</sub> 47Ag <sub>2</sub> SnO <sub>3</sub> 54Ag <sub>2</sub> SnO <sub>3</sub> 64Ag <sub>2</sub> SnO <sub>3</sub>
SnO <sub>2</sub> Content (wt%)	10.0±1.0 12.0±1.0 12.0±1.0 15.0±1.0 10.0±1.0 12.0±1.0 12.0±1.0 14.0±1.0
Density (g/cm <sup>3</sup> )	≥9.85 ≥9.70 ≥9.70 ≥9.50 ≥9.85 ≥9.70 ≥9.70 ≥9.60
Elec.Resistivity (μΩ·cm)	≤2.40 ≤2.50 ≤2.50 ≤2.60 ≤2.40 ≤2.50 ≤2.50 ≤2.50
Hardness HV	≥60 ≥65 ≥75 ≥70 ≥80 ≥80 ≥80 ≥80
Manufacturing Process	Pre-oxidation-Sintering-Extruding Mixing-Sintering-Extruding

Ag <sub>2</sub> SnO <sub>3</sub> In <sub>2</sub> O <sub>3</sub>	
Type	158Ag <sub>2</sub> SnO <sub>3</sub> 168Ag <sub>2</sub> SnO <sub>3</sub> 178Ag <sub>2</sub> SnO <sub>3</sub> 418Ag <sub>2</sub> SnO <sub>3</sub> 568Ag <sub>2</sub> SnO <sub>3</sub>
Ag Content (wt%)	87.0±1.0 88.0±1.0 86.0±1.0 84.5±1.0 88.0±1.0
Density (g/cm <sup>3</sup> )	≥9.70 ≥9.80 ≥9.60 ≥9.55 ≥9.70
Elec.Resistivity (μΩ·cm)	≤3.50 ≤3.40 ≤3.50 ≤3.50 ≤2.50
Hardness HV	≥80 ≥75 ≥80 ≥85 ≥65
Manufacturing Process	Internal Oxidation Pre-oxidation-Sintering

Ag <sub>2</sub> SnO <sub>3</sub>	
Wires	18Ag <sub>2</sub> SnO <sub>3</sub> 98Ag <sub>2</sub> SnO <sub>3</sub> 918Ag <sub>2</sub> SnO <sub>3</sub> 128Ag <sub>2</sub> SnO <sub>3</sub> 328Ag <sub>2</sub> SnO <sub>3</sub>
SnO <sub>2</sub> Content (wt%)	10±1 12±1 12±1 12±1 15±1
Density (g/cm <sup>3</sup> )	≥9.85 ≥9.80 ≥9.75 ≥9.6 ≥9.4
Elec.Resistivity (μΩ·cm)	≤2.25 ≤2.30 ≤2.20 ≤2.40 ≤2.55
Hardness HV	≥75 ≥75 ≥70 ≥50 ≥65
Tensile Strength (MPa)	≥260 ≥260 ≥245 ≥210 ≥210
Elongation (%)	≥10 ≥8 ≥10 ≥8 ≥8
Manufacturing Process	Pre-oxidation-Sintering-Extruding Mixing-Sintering-Extruding

Ag <sub>2</sub> SnO <sub>3</sub> In <sub>2</sub> O <sub>3</sub>	
Wires	38Ag <sub>2</sub> SnO <sub>3</sub> 58Ag <sub>2</sub> SnO <sub>3</sub> 28Ag <sub>2</sub> SnO <sub>3</sub> 518Ag <sub>2</sub> SnO <sub>3</sub> 888Ag <sub>2</sub> SnO <sub>3</sub>
Ag Content (wt%)	90±1 88±1 92±1 88±1 85.5±1
Density (g/cm <sup>3</sup> )	≥9.80 ≥9.75 ≥9.95 ≥9.80 ≥9.65
Elec.Resistivity (μΩ·cm)	≤2.45 ≤2.60 ≤2.30 ≤2.50 ≤2.6
Hardness HV	≥90 ≥100 ≥85 ≥105 ≥95
Tensile Strength (MPa)	≥300 ≥310 ≥270 ≥340 ≥300
Elongation (%)	≥10 ≥10 ≥15 ≥10 ≥10
Manufacturing Process	Pre-oxidation-Sintering-Extruding Internal Oxidation

	Product Types							
	Ag <sub>2</sub> SnO <sub>3</sub>				Ag <sub>2</sub> SnO <sub>3</sub> In <sub>2</sub> O <sub>3</sub>			
SnO <sub>2</sub> Content (wt%)	10.0±1.0	12.0±1.0	14.0±1.0	15.0±1.0	6.0±1.0	8.0±1.0	9.0±1.0	10.0±1.0
Wires	√	√		√		√		√
Strips	√	√	√	√	√	√		
Tube	√	√	√	√	√	√	√	√
Bimetal Strips	√	√	√	√				
Rivets	√	√	√	√	√	√		