

CuSn8 Phosphor Bronze strip

Phosphor bronze factory, more than 10 years manufacture experience, attained ISO9001, work on OEM and ODM projects..

1. Introduction of the CuSn8 Phosphor Bronze strip

CuSn8 / C52100 Phosphor Bronze Strip possesses the best spring properties of all 500 series Phosphor Bronze. High hardness, high strength, coupled with good formability and resistance to fatigue make this alloy an excellent choice where the most severe forming and functional requirements must be met.



2. Grade and temper for CuSn8 Phosphor Bronze strip

Grade: C5210, C52100, CDA521, C521, PB104, CuSn8

Temper: O(M), 1/4H(Y4), 1/2H(Y2), H(Y), HH(T)

Different countries' Standard comparison table of bronze

GB	DIN		EN		ISO	UNS	JIS
-	CuSn5	2.1018	CuSn5	CW451K	CuSn5	C51000	C5102
QSn6.5-0.1	CuSn6	2.1020	CuSn6	CW452K	CuSn6	C51900	C5191
QSn8-0.3	CuSn8	2.1030	CuSn8	CW453K	CuSn8	C52100	C5210

3. Chemical composition of CuSn8 Phosphor Bronze strip

Grade	Cu	Fe	Pb	P	Sn	Zn
C52100	Balance	0.1max	0.05max	0.15-0.35	7.0 – 9.0	0.2max

4. Dimension and tolerance of CuSn8 Phosphor Bronze strip

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Specification (mm)	
Thickness	Width
0.08~0.12	≤300
>0.12~0.15	≤600
>0.15~<0.50	≤600
0.5~3.0	≤1000

5. Characteristics of CuSn8 Phosphor Bronze strip

Mechanical Properties		
Tensile Strength (N/mm ²)	elongation (N/mm ²)	HV
≥345	≥40	/
390-500	≥35	130-160
490-600	≥27	160-190
590-705	≥20	190-210
685-785	≥11	210-230
≥785	≥5	≥230

6. Application of CuSn8 Phosphor Bronze strip

CuSn8 /C52100 is mainly used in Stamped Parts, springs, Components of Electrical Engineering, Terminals, Contacts, Switch Parts, Electromechanical Spring Components, Resistance Wire, Electrical Flexing Contact Blades, Electrical Connectors, Electronic Connectors, Wire Brushes, Electronic and Precision Instrument Parts, Fuse Clips, Terminal Brackets.etc.

7. Manufacture plant of CuSn8 Phosphor Bronze strip



8. Tests and inspection for CuSn8 Phosphor Bronze strip

Test instrument : Metallographic Microscope; Digital Light Processor; Strength Tester; Hardness Tester.



9. Quality certificate for CuSn8 Phosphor Bronze strip

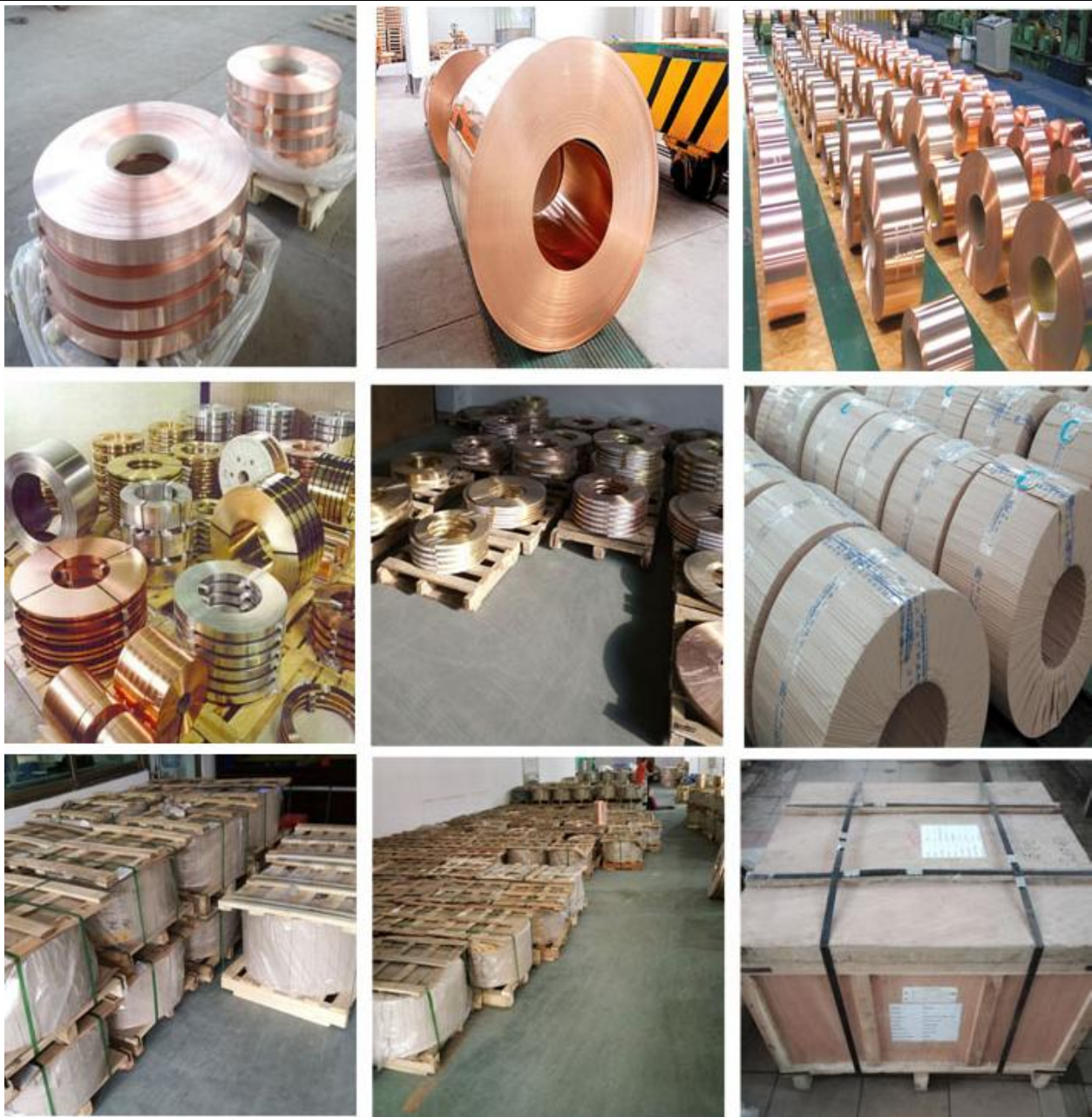
CERTIFICATE



10. Packing and shipping for CuSn8 Phosphor Bronze strip

Packing:

First wrapped by anti-rust paper, second wrapped by plastic film, then packed by wooden box or wooden pallet ..



Shipping:

We will choose the best way according to customer's requests.

1. By Air, to the indicated airport.
2. By Express (FedEx, UPS, DHL, TNT, EMS), to the indicated address.
2. By Sea, to the indicated sea port.



11. Questions and Answers

a1. Do you have ISO certificate?

Yes, we obtained ISO9001

a2. How long is your delivery time for CuSn8 Phosphor Bronze strip?

If the master coil is available, 3-7 days do slitting will be ready , if not, will need 20-25 days for new production.

a3. Can you help us to choose suitable material?

Yes, we can recommend the most suitable material according to your application.

a4. How do you control quality?

We produce strictly according to customer's drawings and requests, here are strict control plan in every process, full check of each parts, strive to provide customer 100% quality products, ROHS/SGS test report, material certificate are available.

a5. Do you provide sample? Free or charge?

Yes, if the sample in stock available, free of charge, if not, need to charge some mfg cost.