

CuSn6 Phosphor Bronze strip

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

1. Introduction of the CuSn6 Phosphor Bronze strip

CuSn6/ C51900 Phosphor Bronze Is an alloy with copper, tin and phosphorus as the main alloying elements. It has slightly higher strength properties to C5100 Phosphor Bronze while maintaining the same electrical conductivity of 15 percent IACS.

Due to the higher strength and springiness and good workability, C51900 is used for all types of springs as well as for flexible metal hoses.



2. Grade and temper for CuSn6 Phosphor Bronze strip

Grade: C5191, C51900, CDA519, C519, PB103, CuSn6

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 CuSn6 Phosphor Bronze strip

Grade	Cu	Fe	Pb	P	Sn	Zn
C51900	Balance	0.1max	0.05max	0.03-0.35	5.5 – 7.0	0.3max

Address: No.16 Shuanggang street, Tangchun Village, Liaobu Town, 523407 Dongguan , Guangdong, China

Phone: +86-769-89800565

E-mail:sales@intmc.com

4. Dimension and tolerance of CuSn6 Phosphor Bronze strip

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 CuSn6 Phosphor Bronze strip

Mechanical properties for CuSn6 C5191 alloy

C5191	HV	Tensile strength	Elongation
M	90-110	310-395	>40
H/4	110-150	395-490	>35
H/2	150-180	490-600	>20
H	180-210	590-680	>10
EH	210-230	>635	>5

6. Application of CuSn6 Phosphor Bronze strip

Electrical	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.
Industrial	Bellows, Textile Machinery, Perforated Sheets, Chemical Hardware, Truss Wire, Mechanical Springs, Sleeve Bushings, Diaphragms, Clutch Disks, Bourdon Tubes, Beater Bar, Welding Rods, Pressure Responsive Elements, Sprinkler Parts, Automotive Parts

7. Manufacture plant of CuSn6 Phosphor Bronze strip



8. Tests and inspection for CuSn6 Phosphor Bronze strip

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



9. Quality certificate for CuSn6 Phosphor Bronze strip

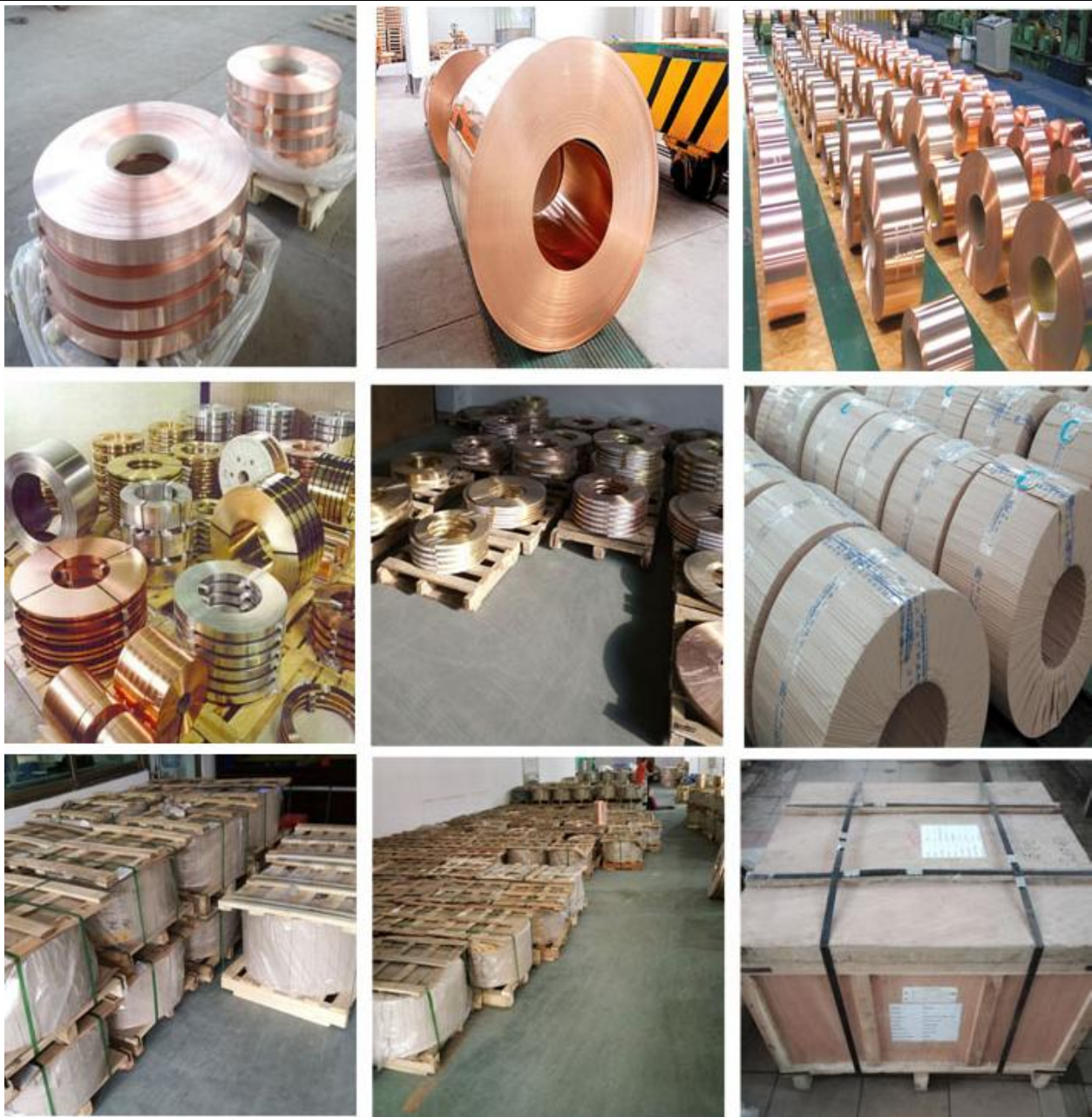
CERTIFICATE



10. Packing and shipping for CuSn6 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.

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11. Questions and Answers

a1. Do you have ISO certificate?

Yes, we obtained ISO9001

a2. How long is your delivery time for CuSn6 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.