

## **C51900 Bronze strip**

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

### **1. Introduction of the C51900 Bronze strip**

C51900/ CuSn6 Phosphor Bronze, which is a 6% tin bronze distinguished by a very good combination of strength and electrical conductivity.

It is used for connector and current-carrying springs in contacts. Among the 4-8% tin bronze C51900 exhibits a high electrical conductivity, the highest reachable strength is significantly higher than C51000. By means of an additional further tempering after the cold forming process the bendability can be further improved.



### **2. Grade and temper for C51900 Bronze trip**

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

Temper: O, 1/4H, 1/2H, H, EH,SH

### **3. Chemical composition of C51900 Bronze strip**

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

### **4. Characteristic of C51900 Bronze strip**

- High Strength
- Good Formability
- Excellent Connector for Telecommunication Spring Applications
- Low Memory
- Ideal Shear / Yield Ratio

## 5. Mechanical properties for C51900 Bronze strip

### MECHANICAL PROPERTIES

Temper	Tensile Strength		Yield Offset	Elongation	Hardness
	<i>x 1000 P.S.I.</i>		<i>0.2% offset x 1000 P.S.I.</i>	<i>% in 2 Inches</i>	<i>.020 Gauge and Above</i>
Ann 060	48 - 63	16 - 28	50 - 65	30T 25 - 64	
1/4H H01	60 - 72	28 - 60	35 - 55	-	
1/2H H02	64 - 79	49 - 72	20 - 42	30T 58 - 76	
3/4H H03	74 - 90	64 - 80	14 - 26	-	
Hard H04	80 - 96	75 - 92	7 - 16	30T 72 - 80	
Ex-H H06	92 - 108	88 - 106	3 - 8	-	
Spring H08	99 - 116	95 - 110	2 - 6	-	
Ex-Spring H10	105	100	1 - 3	-	

Hardness Legend 30T : Rockwell (30 kgf Steel Sphere)

## 6. Application of C51900 Bronze strip

C51900/ CuSn6 bronze strip is Mainly used as wear-resistant parts and elastic components. Computer connectors, mobile phone connectors, high-tech industry connectors, springs for electronic and electrical appliances, switches, slots for electronic products, buttons, electrical connectors, lead frames, vibration plates and terminals, etc.

## 7. Manufacture plant of C51900 Bronze strip



## 8. Tests and inspection for C51900 Bronze strip

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



**9. Mill certificate for C51900 Bronze strip**



**Test Report**

No. SHAEC1827228301

Date: 08 Dec 2018

Sample photo:



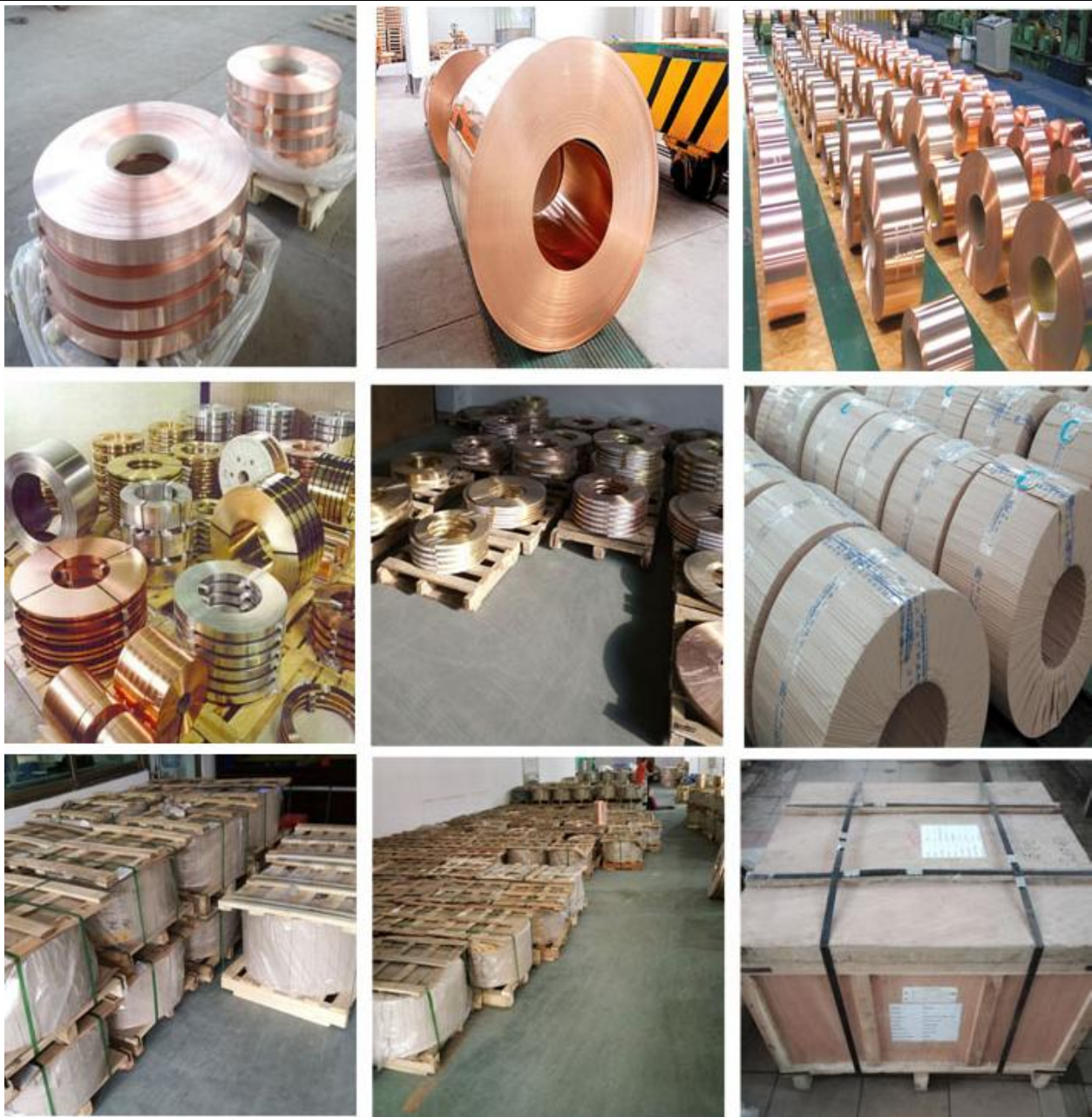
SGS authenticate the photo on original report only

\*\*\* End of Report \*\*\*

**10. Packing and shipping for C51900 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 C51900 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.