

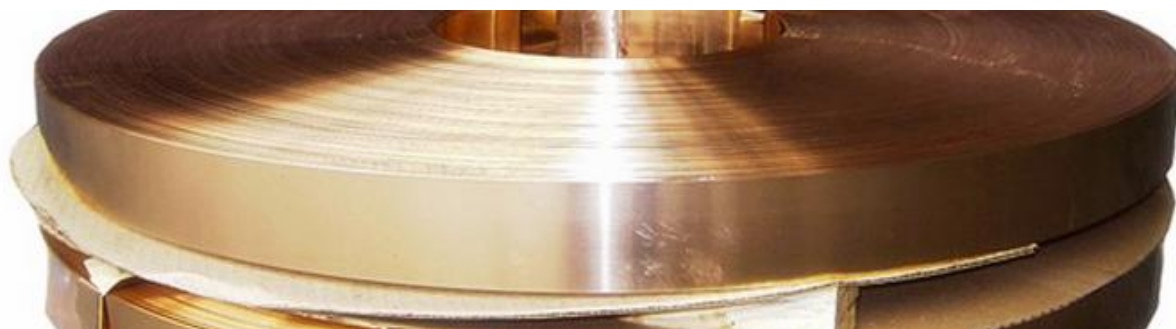
CuSn5 Phosphor Bronze strip

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

1. Introduction of the CuSn5 Phosphor Bronze strip

CuSn5 /C51000 Phosphor Bronze Alloy has high strength and ductility, superior fatigue and spring characteristics, excellent corrosion resistance, durability for severe service, good bearing qualities with low friction and higher wear resistance, superior forming and spinning, resistance to stress relaxation and good joining properties.

In most cases, C51000 alloy has adequate electrical and thermal properties for many current-carrying and heat transfer requirements.



2. Grade and temper for CuSn5 Phosphor Bronze strip

Grade: CuSn5, C5100, C51000, CDA510, C510, PB102

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 CuSn5 Phosphor Bronze strip

| Grade | Cu | Fe | Pb | P | Sn | Zn |
|--------|-----------|-----|------|-----------|-----------|-----|
| C51000 | Remainder | 0.1 | 0.05 | 0.03-0.35 | 4.2 - 5.8 | 0.3 |

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4. Dimension and tolerance of CuSn5 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 CuSn5 Phosphor Bronze strip

Mechanical properties for CuSn5 C5100 alloy

| C5100 | 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 CuSn5 Phosphor Bronze strip

| | |
|-------------------|---|
| Electrical | Terminals, Contacts, Switch Parts, 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 |

7. Manufacture plant of CuSn5 Phosphor Bronze strip



8. Tests and inspection for CuSn5 Phosphor Bronze strip

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



9. Quality certificate for CuSn5 Phosphor Bronze strip

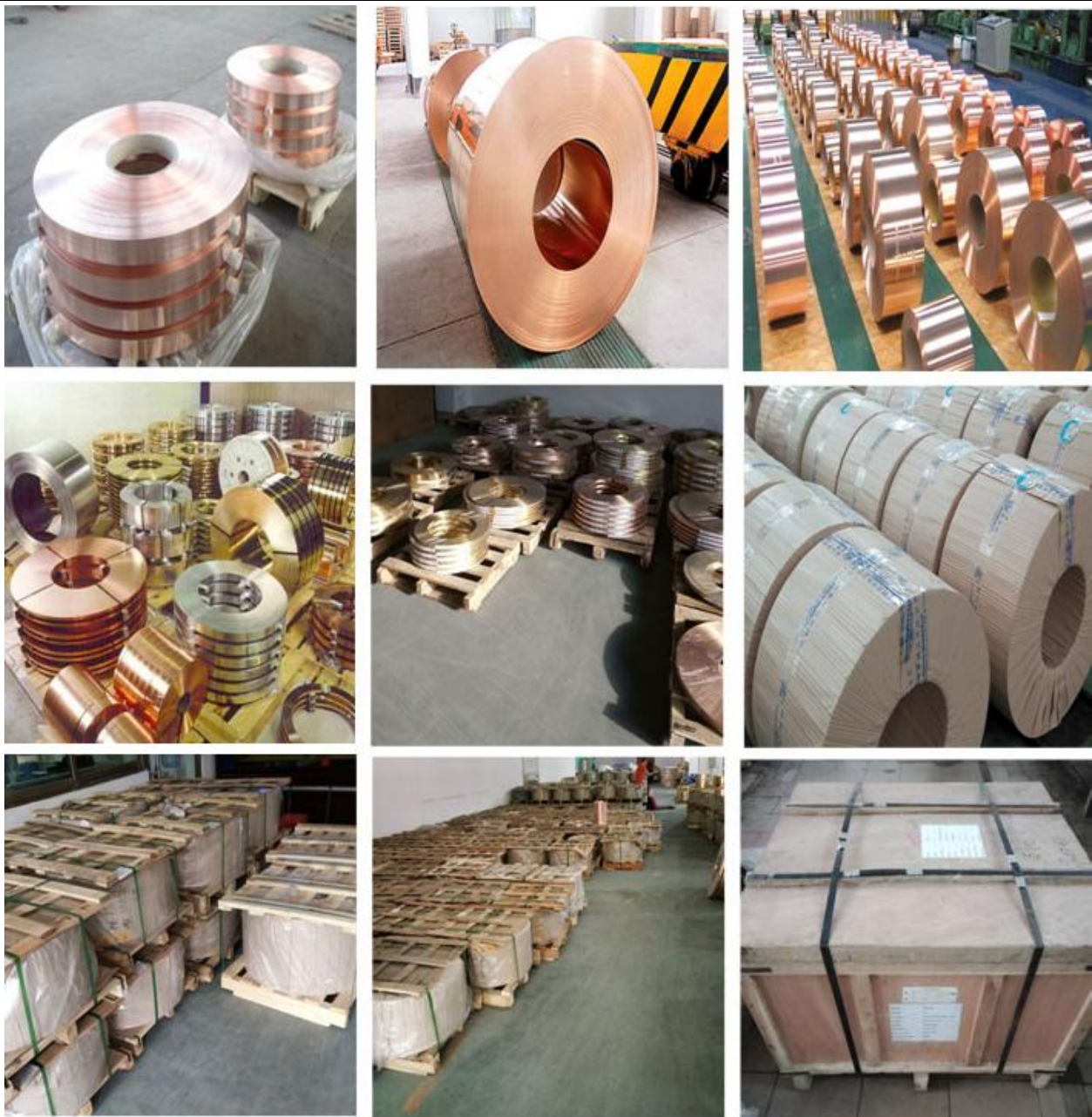
CERTIFICATE



10. Packing and shipping for CuSn5 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 CuSn5 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.