

### **Oxygen free copper strip**

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

### **Introduction of the Oxygen free copper strip**

According to the oxygen content and impurity content, oxygen-free copper is divided into No. 1 and No. 2 oxygen-free copper.

The purity of No. 1 oxygen-free copper reaches 99.97%, the oxygen content is not more than 0.003%, and the total impurity content is not more than 0.03%;

The purity of No. 2 oxygen-free copper reaches 99.95%, the oxygen content is not more than 0.005%, and the total impurity content is not more than 0.05%.

### **2. Grade and temper for Oxygen free copper strip**

Grade: TU1 ,TU2, C101, C10100, C10200, CDA101 ,CDA102,

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

### **3. Chemical composition of Oxygen free copper strip**

#### **TU1/ C10100 Chemical composition**

(Cu+Ag) ≥99.97

(Pb) ≤0.003

(Zn) ≤0.003

(Fe) ≤0.004

(P) ≤0.002

(Bi) ≤0.001

(Sb) ≤0.002

(S) ≤0.004

(Sn) ≤0.002

(Ni) ≤0.002

(As) ≤0.002

(O) ≤0.002

Impurities% ≤0.03

#### **TU2/ C10200 Chemical composition**

Cu+Ag: ≥99.95

Sn : ≤0.002

Zn: ≤0.003

Pb: ≤0.004

P: ≤0.002

Ni: ≤0.002  
 Fe: ≤0.004  
 Sb : ≤0.002  
 S : ≤0.004  
 As : ≤0.002  
 Bi: ≤0.001  
 O: ≤0.003  
 Impurities%: ≤0.05

#### 4. Dimension and tolerance of Oxygen free copper strip

Width	Thickness					
	≤1.0		>1.0~1.5		>1.5~2.5	
	Thickness tolerance / ±					
	Ordinary Level	Ordinary Level	Ordinary Level	Ordinary Level	Ordinary Level	Ordinary Level
≤100	0.2	0.10	0.3	0.20	0.4	0.25
>100~300	0.3	0.15	0.4	0.25	0.5	0.30
>300~600	0.5	0.30	0.6	0.40	0.6	0.50
>600~1000	0.8	0.60	0.8	0.70	0.8	—

#### 5. Mechanical properties for Oxygen free copper strip

Grade	Temper	Thickness /mm	Tensile strength	Elongation (%)	Vickers hardness HV
			(MPa)		
TU1	M (soft)	≥0.2	≥195	≥30	≤70
TU2	Y4 (1/4H)		215~275	≥25	60~90
C1010	Y2 (1/2H)		245~345	≥8	80~110
C1020	Y (H)		295~380	≥3	90~120
	T (HH)		≥350	—	≥110

#### 6. Application of Oxygen free copper strip

Oxygen-free copper products are mainly used in the electronics industry and electric vacuum devices and instruments and meters.

## 7. Manufacture plant of Oxygen free copper strip



## 8. Tests and inspection for Oxygen free copper strip

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



**9. Mill certificate for Oxygen free copper strip**



**Test Report**

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Sample photo:



SGS authenticate the photo on original report only

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

**10. Packing and shipping for Oxygen free copper 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 Oxygen free copper 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.