

C17200 Beryllium copper strip

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

1. Introduction of the C17200 Beryllium copper strip

Beryllium bronze and spring copper is a copper alloy with 0.5—3% beryllium and sometimes with other alloying elements. Beryllium copper combines high strength with non-magnetic and non-sparking qualities. It has excellent metalworking, forming and machining qualities. It has many specialized applications in tools for hazardous environments, musical instruments, precision measurement devices, bullets, and aerospace. Beryllium-containing alloys create an inhalation hazard during manufacturing due to their toxic properties.

C17200 (CDA 172/ Cube2) Beryllium Copper is the most commonly utilized Copper Beryllium alloy and is notable for its highest strength and hardness compared to commercial copper alloys.



2. Grade and temper for C17200 Beryllium copper Strip

Grade: C17200, C172, CDA172, QBe2, CuBe2, CB101

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

3. Chemical composition of C17200 Beryllium copper strip

Be: 1.9-2.15%

Co+Ni: 0.20% Min.

Co+Ni+Fe: 0.60% Max.

Cu: Balance

Note: Copper plus additions equal 99.5% minimum.

4. Characteristic of C17200 Beryllium copper strip

- High Strength
- Good Formability
- Good corrosion resistance
- Easy welding and soldering
- Fatigue Resistant

Physical properties

Density(g/cm ³)	8.26
Electrical conductivity{IACS%(20°C)}	25
Modulus of elasticity(KN/mm ²)	127
Thermal conductivity{W/(m*K)}	83.7-130
Coefficient of thermal expansion (10-6/°C 20/°C~100/°C)	17.8

5. Mechanical properties for C17200 Beryllium copper strip

Temp er	Tensile Strength	Yield Strength	Elongatio n A50	Hardnes s	Bendabili ty	Bendabili ty
	(Rm,Mp a)	Rp0.2,Mp a	%	HV	GW	BW
0	410-540	-	≥35	90-160	0	0
1/4H	510-620	-	≥10	145-220	2	1
1/2H	590-695	-	≥5	180-240	3	2
H	685-835	-	≥2	210-270	6	2

6. Application of C17200 Beryllium copper strip

C17200 beryllium copper is used for all kinds of micro motor brushes, switches, relays, connectors, thermostat springs, and various springs that require high strength, high elasticity, high hardness, and high wear resistance etc.

7. Manufacture plant of C17200 Beryllium copper strip



8. Tests and inspection for C17200 Beryllium copper strip

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



9. Mill certificate for C17200 Beryllium copper strip



Test Report

No. SHAEC1827228301

Date: 08 Dec 2018

Sample photo:



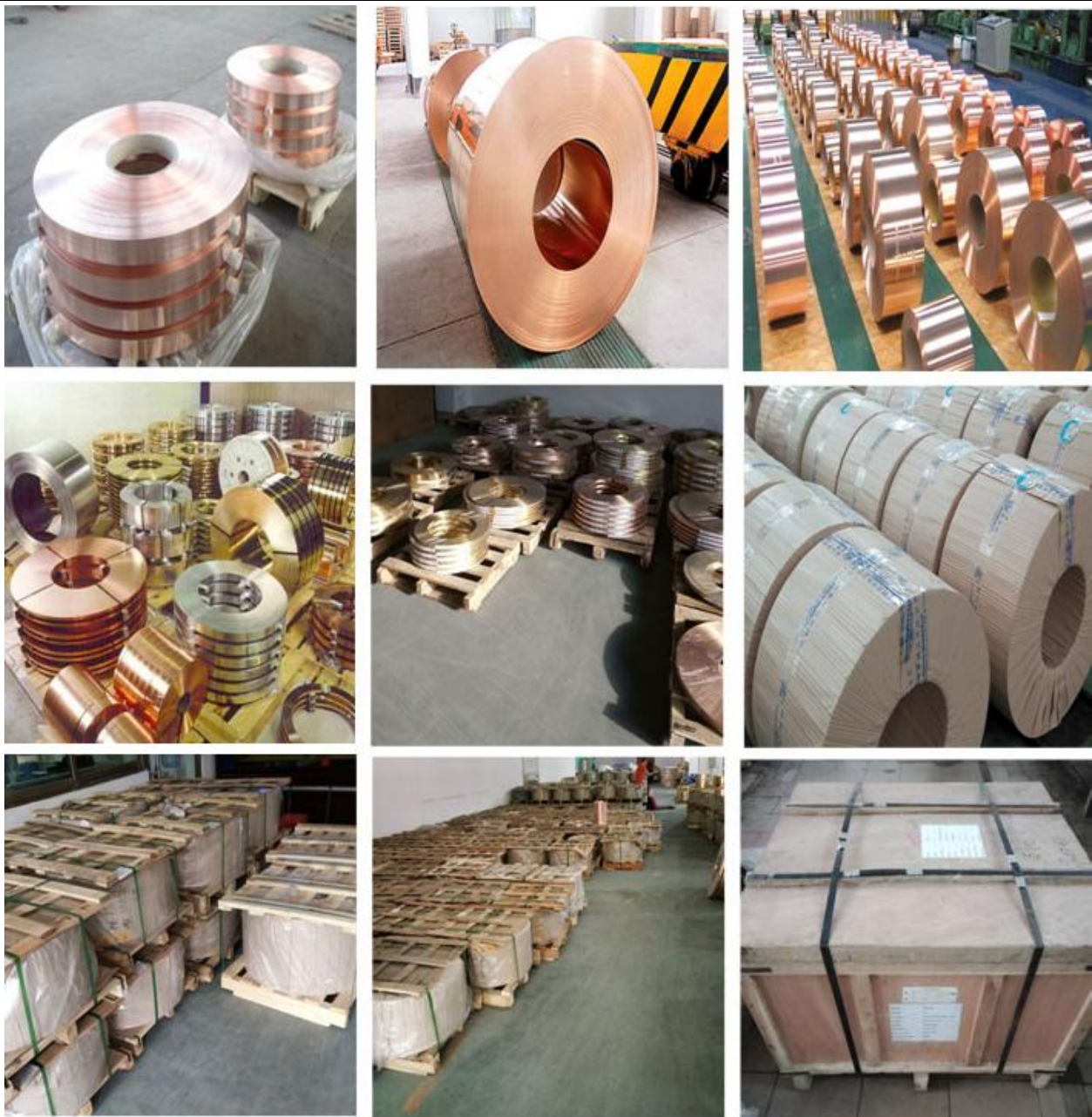
SGS authenticate the photo on original report only

*** End of Report ***

10. Packing and shipping for C17200 Beryllium 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.

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

Phone: +86-769-89800565

E-mail:sales@intmc.com



11. Questions and Answers

a1. Do you have ISO certificate?

Yes, we obtained ISO9001

a2. How long is your delivery time for C17200 Beryllium 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.