



## Round Beryllium Stripped Solid Bare Copper Wire C172 ASTM B197

Our Product Introduction

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### Basic Information

- Place of Origin: china
- Brand Name: jinshunlai
- Certification: IOS
- Model Number: 0.1mm-900mm
- Minimum Order Quantity: 1kg
- Price: contact us
- Delivery Time: 5day
- Payment Terms: L/C, T/T , Western Union,D/P
- Supply Ability: 90000ton



### Product Specification

- Application: Electrical
- Color: Red
- Conductor Material: Copper
- Package Type: Spool
- Product Name: Solid Bare Copper Wire
- RoHS Compliant: Yes
- Standards: UL, CSA
- Color: Red Yellow
- Highlight: Stripped Solid Bare Copper Wire, C172 Solid Bare Copper Wire, ASTM stripped copper wire



### More Images



## Product Description

### Specification

Product name	99.9999% Purity OCC pure copper wire
Material	Cu
Composition	more than 99.9999
Density(G/cm3)	more than 8.9
Resistivity( $\mu\Omega$ . cm)	0.0172
Purity	99.999%; 99.9999%
Shape	Wire, According to your request
Available size	$\phi 3 \times 3\text{mm}$ 6*6mm Customization is available
Certificates	ISO9001:2008, SGS, The third test report
Technics	4615 Degrees Celsius
Processing technic	Vacuum Melting, Patented thermo-mechanical process
Application	Widely used in coating processing industries A: Solar Photovoltaic Application. B: Electronic and Semiconductor Application. C: Decoration and Coating Application. etc.

#### Key Technology of Beryllium Copper(Heat treatment)

Heat treatment is the most important process for this alloy system. While all copper alloys are hardenable by cold working, beryllium copper is unique in being hardenable by a simple low temperature thermal treatment. It involves two basic steps. The first is called solution annealing and the second, precipitation or age hardening.

##### Solution Annealing

For the typical alloy CuBe2Pb) the alloy is heated between 720°C and 860°C. At this point the contained beryllium is essentially “dissolved” in the copper matrix (alpha phase). By rapidly quenching to room temperature this solid solution structure is retained. The material at this stage is very soft and ductile and can be readily cold worked by drawing, forming rolling, or cold heading. The solution annealing operation is part of the process at the mill and is not typically used by the customer. Temperature, time at temperature, quench rate, grain size, and hardness are all very critical parameters and are tightly controlled by ohmalloy.

##### Age Hardening

Age hardening significantly enhances the material's strength. This reaction is generally carried out at temperatures between 260°C and 540°C depending on alloy and desired characteristics. This cycle causes the dissolved beryllium to precipitate as a beryllium rich (gamma) phase in the matrix and at the grain boundaries. It is the formation of this precipitate which causes the large increase in material strength. The level of mechanical properties attained is determined by the temperature and time at temperature. It should be recognized that beryllium copper has no room temperature aging characteristics.

#### Fabrication

JOINING TECHNIQUE	SUITABILITY
Brazing	Good
Butt Weld	Fair
Capacity for Being Cold Worked	Excellent
Capacity for Being Hot Formed	Good
Coated Metal Arc Welding	Good
Gas Sheilded Arc Welding	Good
Machinability rating	50
Oxyacetylene Welding	Not Recommended
Seam Weld	Fair
Soldering	Good
Spot Weld	G



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