



UNS C17000 Round Beryllium Solid Copper Rod Stock 6mm-50mm Electrical Conductivity

Our Product Introduction

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: 5days
- Payment Terms: L/C, T/T , Western Union,D/P
- Supply Ability: 90000ton



Product Specification

- Color: Red Yellow
- Density: 8.96 G/cm3
- Electrical Conductivity: 59.6 %IACS
- Finish: Solid
- Material: Copper
- Melting Point: 1083.4°C
- Shape: Rod
- Thermal Conductivity: 401 W/mK
- Highlight: C17000 Solid Copper Rod,
6mm Solid Copper Rod,
Beryllium copper round stock

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Product Description

Beryllium Copper UNS C17000 Round Rods With High Strength And Electrical Conductivity

Product Name: Beryllium copper round rods

Grade: UNS C17000

Diameter Range: 6mm~50mm

Length: 2m, 3m, 5m, 6m or as required

State: A(TB00), 1/2H(TB04), H(TD04), AT(TF00), HT(TH04)

Typical Applications And Characteristics of Beryllium Copper UNS C17000 Alloy:

Typical application: Beryllium Copper products are widely used in aviation, aerospace, ships, military industry, metallurgy, electronics, electrical, mechanical, transportation, construction and other fields of the national economy.

Characteristics: Excellent cold working and hot working performance, high strength and high elasticity, excellent electroplating, hot dip and welding performance, seawater and industrial atmosphere corrosion.

Common Standard Specification of Beryllium Copper UNS C17000 Alloy:

Rod: ASTM B 196, SAE J 461, 463

Forgings and Extrusions : ASTM B570

Sheet: ASTM B 194

Typical Physical Properties of Beryllium Copper UNS C17000 Alloy:

Cuberyllium Brand	Density lb/cu.in.	Elastic Modulus	Thermal Expansion Coefficient	Thermal Conductivity	Melting Temp.
		106 psi	in/in/°F, 70°F to 400°F	Btu/(ft-hr·°F)	°F
170	0.304	19	9.7×10^{-6}	60	1600-1800

Mechanical Properties of Beryllium Copper UNS C17000 Alloy:

Properties	Metric	Imperial
Tensile strength, ultimate	483 - 810 MPa	70100 - 117000 psi
Tensile strength, yield (depending on temper)	221 - 1172 MPa	32100 - 170000 psi
Elongation at break (in 76.2 mm)	45.0%	45.0%
Modulus of elasticity	115 GPa	16700 ksi
Poissons ratio	0.300	0.300
Machinability (UNS C36000 (free-cutting brass) = 100%)	20%	20%
Shear modulus	50.0 GPa	7250 ksi



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