



ASTM B196 C17000 Beryllium Copper Rod Pipe Cold Drawn 45mm

Our Product Introduction

Basic Information

- Place of Origin: china
- Brand Name: jinshunlai
- Certification: IOS AISI, ASTM, GB, EN
- 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

- Boiling Point: 2567°C
- Conductivity: 100%IACS
- Density: 8.96g/cm3
- Elongation: 30%
- Hardness: HV30-50
- Material: Copper
- Melting Point: 1083.4°C
- Shape: Rod
- Surface: Smooth
- Tensile Strength: 240N/mm2
- Tolerance: $\pm 0.25\text{mm}$
- Highlight: Cold Drawn c17000 beryllium copper,
45mm c17000 beryllium copper,
C17000 beryllium copper rod

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Product Description

C17000 Rod made by Cold Drawn Size 45mm for structural components by ASTM B196

Product Name: Rod
 Grade: 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)

Introduction of C17000 Copper Alloy:

UNS C17000 beryllium copper alloys are ductile, heat treatable and can be mill hardened. These alloys are used in applications, which require high strength and good conductivity. The following section will discuss in detail about UNS C17000 beryllium copper alloys.

UNS-Number: C17000

Beryllium(Be): 1.60-1.79

Cobalt + Nickel: 0.20 min

Cobalt + Nickel + Iron: 0.6 max

Lead: 0.02 max

Copper: Balance

Note: Copper plus additions equal 99.5% Min.

Common Standard Specification of Beryllium Copper 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 C17200 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 x 10 ⁻⁶	60	1600-1800

Mechanical Properties of Beryllium Copper C17000 Rods:

Cuberyllium 170 Temper		Tensile Strength	Yield Offset	Elongation	Hardness
		x 1000 P.S.I.	0.2% offset x 1000 P.S.I.	% in 2 Inches	.020 Gauge and Above
TM00	AM	100 - 110	70 - 95	18 ~30	B 98
TM01	1/4HM	110 - 120	80 - 110	15 ~ 25	C 20 - 26
TM02	1/2HM	120 - 135	95 - 125	12~22	C 24 - 30
TM04	HM	135 - 150	110 - 135	9~20	C 28 - 35
TM05	SHM	150 - 160	125 - 140	9~18	C 31 - 37
TM06	XHM	155 - 175	135 - 165	3~10	C 32 - 38
Hardness Legend B : Rockwell (100 kgf Steel Sphere) C: Rockwell (150 kgf Diamond Cone)					
NOTE: The information contained herein are intended for reference and comparison purposes only. They should NOT be used as a basis for design specifications or quality control. It is given without obligation or liability. Contact us for manufacturers' complete material property datasheets.					



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