



TD02 CDA 172 Beryllium Copper Rods Bars High Tensile Strength For Welding Equipment

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
- Highlight: TD02 CDA beryllium copper rods,
High Tensile beryllium copper rods,
TD02 4mm copper rod

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Product Description

CDA 172 Beryllium Cu Alloy Bars With High Tensile Strength For Welding Equipment

Product Normal Description:

Product Name: Beryllium Cu alloy bars

Grade: CDA 172

Standard: ASTM B196,251,463; SAE J461,463; AMS 4533,4534,4535; AMS 4650,4651; RWMA Class 4

Product Diameter: 5mm-100mm

State: A(TB00), 1/2H (TD02), H(TD04),AT(TF00),HT(TH04)

Typical Application: For electrical industry

CDA 172 Beryllium Cu Alloy International Specification:

Rods/Bars/Tubes: ASTM B196,251,463; SAE J461,463; AMS 4533,4534,4535; AMS 4650,4651; RWMA Class 4

European Standards: CuBe2, Alloy 25, QBe2, BrB2, DIN.2.1247, CW101C to EN

Note:

ASTM: American Society for Testing and Materials

SAE: Society of Automotive Engineers

AMS: Aerospace Materials Specification(Published by SEA)

RWMA: Resistance Welder Manufacturers' Association

Note: Unless otherwise specified, material will be produced by ASTM.

Typical Physical Properties of CDA 172 Beryllium Cu Alloy :

Characteristics		English	Metric
Nominal density (68°F/20°C)		0.298 lbs/in ³	8.25 g/cm ³
Specific heat (212 °F/100°C)		0.10 BTU/lb – °F	420 J/KG- °K
Melting range		1590-1800 °F	865-980 °C
Coefficient of thermal expansion	68°F – 212°F	9.3 micro in/in- °F	16.7 micro m/m- °K
	20°C – 100°C		
	68°F – 392°F	9.4 micro in/in- °F	17.0 micro m/m- °K
	20°C – 200°C		
	68°F – 572°F	9.9 micro in/in- °F	17.8 micro m/m- °K
	20°C – 300°C		
Thermal conductivity	20°C / 68°F	60-75 BTU/ft- hr – °F	105-130 W/m – °K
	200°C / 392°F	75-77 BTU/ft- hr – °F	130-133 W/m – °K
Electrical resistivity	20°C / 68°F	57-115 nΩ · m	
Electrical conductivity	Volumetric: 20°C / 68°F	15-30% IACS	

Mechanical and Electrical Properties of CDA 172 Beryllium Cu Alloy Bars:

Temper(°)	Diameter	Heat Treatment	Tensile Strength ksi	Elongation Percent (Min)	Electrical Conductivity Percent IACS	Hardness Rockwell B or C Scale
A(TB00)	ALL SIZE	/	400~600	30	15~19	B45~85
1/2H(TB04)	5~40	/	550~700	10	15~19	B78
H(TD04)	5~10	/	660~900	5	15~19	B88
	10~25	/	620~860	5	15~19	
	25	/	590~830	5	15~19	
AT(TF00)	ALL SIZE	3 hr 320°C	1100~1380	2	22~28	C35~42
HT(TH04)	5~10	2 hr 320°C	1200~1550	1	22~28	C37~45
	10~25		1150~1520	1	22~28	C36~44
	25		1120~1480	1	22~28	C35~44



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