# CuNi2Be Alloy Nickel Beryllium Copper Tube C17510 Industrial

Our Product Introduction

## Basic Information

- Place of Origin: china
- Brand Name: jinshunlai
- Certification: IOS
- Model Number: 0.1nm-900nm
- Minimum Order Quantity: 1kg
- Price: contact us
- Packaging Details: Standard export seaworthy package,suit for all kinds of transport, or as required.
- Delivery Time: 5days
- Payment Terms: L/C, T/T , Western Union,D/P
- Supply Ability: 90000ton

## Product Specification

- Application: Industrial, Construction, Etc.
- Color: Customized
- Inner Diameter: Customized
- Length: Customized
- Material: Copper
- Outer Diameter: Customized
- Package: Carton, Wooden Case, Etc.
- Shape: Tube
- Standard: ASTM, AISI, DIN, JIS, Etc.
- Surface Treatment: Polishing, Plating, Anodizing, Etc.
- Thickness: Customized
- Tolerance: Customized
- Color: Red Yellow
- Highlight: **C17510 beryllium copper tube**, **Industrial beryllium copper tube**,

## More Images

## Product Description

# PRODUCT DESCRIPTION

**CuNi2Be Nickel Beryllium Copper Tube C17510 For Industry Application**
**Product Description:**
Name: Nickel Beryllium Copper Tube
Grade: CuNi2Be(**CUBERYLLIUM**® 751)
End Product Form: Pipe, Tube
State: A(TB00), H(TD04), AT(TF00), HT(TH04)
Standard: ASTM B 937, SAE J 461, SAE J 463, RWMA Class 3, EN 12163, EN 12165, EN 12167
Application: Used for industry application
Feature: with highly conductivity
Package: in plywoode cases or wooden cases
Size: Custom Diameter & Sizes, Random Mill Lengths

**Introduction of CuNi2Be (C17510) Beryllium Copper Alloy:**
C17510(Class 3) Copper Alloy is specifically recommended for projection welding dies, flash and butt welding dies, current carrying shafts, and bushings. Since they have higher strength than Class 2, C17510 is recommended for highly stressed welder structural current carrying members and heavy duty offset electrode holders.

Cl17510(Class 3) Copper Alloy is generally recommended for spot welding and seam welding steels, such as stainless steel, since it has high electrical resistance. The C17510 alloy is heat treatable.

**Chemical Composition of CuNi2Be Nickel Beryllium Copper Alloy C17510:**

| **CUBERYLLIUM® Brand** | UNS-Number | **Beryllium** | **Nickel** | **Copper** |
|---|---|---|---|---|
| **Cuberyllium-C751** | C17510 | 0.20~0.60 | 1.4 2.2 | Balance |

**Related material specifications of CuNi2Be Nickel Beryllium Copper Alloy C17510:**
Tubes/Pipes: ASTM B 937, SAE J 461, SAE J 463, RWMA Class 3, EN 12163, EN 12165, EN 12167
European Standards: CuNi2Be, CuNiBe, Alloy 3, DIN. 2.0850, CW110C 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 CuNi2Be Nickel Beryllium Copper Alloy C17510:**

| | | |
|---|---|---|
| Density | 8.83 | g/cm3 |
| Density before age hardening | 8.75 | g/cm3 |
| Elastic Modulus | 14.1 | kg/mm2 (103) |
| Thermal Expansion Coefficient | 18x10-6 | 20 °C to 200 °C m/m/°C |
| Thermal Conductivity | 0.57 | cal/(cm-s-°C) |
| Melting Range | 1000-1070 | °C |

**Temper Designations of CuNi2Be Nickel Beryllium Copper Tube C17510 (CUBERYLLIUM ®-751):**

| **Cuberyllium Designation** | **ASTM** | **Mechanical and Electrical Properties of Copper Beryllium Tube/Pipe** | | | | | |
|---|---|---|---|---|---|---|---|
| | **Temper** | **Outside Diameter or Distance Between Parallel Surfaces (mm)** | **Tensile Strength (Mpa)** | **Yield Strength 0.2% offset(Mpa)** | **Elongation Percent** | **HARDNESS (Rockwell B Scale)** | **Electrical Conductiviry percent(IACS)** |
| **A** | TB00 | All sizes | 240 380 | 70 210 | 20-35 | B20-50 | 20-30 |
| **H** | TD04 | up to 76 | 440~550 | 340~520 | 10-15 | B60-80 | 20-30 |
| **AT** | TF00 | All sizes | 680 890 | 550 690 | 10-25 | B92-100 | 45-60 |
| **HT** | TH04 | up to 76 | 750 ~ 960 | 650 ~ 860 | 5-25 | B95-102 | 48-60 |

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