

CuCo2Be

Cobalt Beryllium Copper

| Norms | Description | Applications |
|---|---|---|
| UNS C17500 DIN 2.1285 R.W.M.A. Class III | After hot forging, it gains high resistance and conductivity by precipitation hardening and thermal ageing process. Compared to CuCoNiBe, CuCo2Be has slightly better mechanical and physical properties. | <ul style="list-style-type: none"> ● Spot Welding Electrodes ● Seam Welding Wheels/Disks for Stainless Steel Sheets ● Mesh Welding Electrodes ● Butt Welding Electrodes ● Plunger Tips for Cold Chamber Aluminum Die Casting Machines ● Moulds for Non-Ferrous Metal Casting. |

| Chemical Composition | | Mechanical Properties | | Physical Properties | |
|----------------------|---------|--------------------------|-----------------------------|--------------------------------|------------------------|
| Co | 2,5 % | Hardness | 220 - 260 HB | Electrical Conductivity | min. 44 % IACS |
| Ni | 0,3 % | Tensile Strength | 700 - 900 N/mm ² | Thermal Conductivity | 200 - 220 W/mK |
| Be | 0.5 % | Yield Strength | 490 - 550 N/mm ² | Density | 8.75 g/cm ³ |
| Cu | Balance | Elongation (L=5D) | > 8 % | | |

Available Forms



Delivery Conditions

Forged and solution heat treated.

STANDARDS & CERTIFICATION

The quality control process is certified with **UNI EN ISO 9001:2015**

In our laboratories, all products are controlled with Optical Emission Spektrometer (OXFORD INSTRUMENTS), hardness/ electrical conductivity tests with bench-type hardness measurements, mobile conductivity testers according to **DIN 3.1.B STANDARDS**.

On request We deliver our products with US Tested (second level ultrasonic report) by third-party independent laboratories

By phone

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International (English):
+90 (262) 503 40 42

Mon. – Thurs. 9:00 - 18:00 (GMT+3)
Friday 9:00 - 15:00 (GMT+3)

By mail

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