

## CuNiBe

Nickel Beryllium Copper

Norms	Description	Applications
UNS C17510 DIN 2.0850 R.W.M.A. Class III	It is possible to have different combinations of electrical conductivity and hardness by changing the heat treatment conditions.	<ul style="list-style-type: none"> <li>● Spot welding electrodes</li> <li>● Seam welding wheels/discs for stainless steel sheets</li> <li>● Mesh welding electrodes</li> <li>● Butt welding electrodes</li> <li>● Plunger tips for cold chamber aluminum die casting machines</li> <li>● Moulds for non-ferrous metal casting.</li> </ul>

Chemical Composition	Mechanical Properties	Physical Properties
<b>Ni</b> 2 % <b>Be</b> 0,5 % <b>Cu</b> Balance	<b>Hardness</b> 235 - 260 HB <b>Tensile Strength</b> 720 - 830 N/mm2 <b>Yield Strength</b> 620 - 740 N/mm2 <b>Elongation (L=5D)</b> min. 10 %	<b>Electrical Conductivity</b> 45 % IACS <b>Thermal Conductivity</b> 250 W/mK <b>Density</b> 8.9 g/cm3

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

**Türkiye (Turkish):**  
+90 (216) 394 1 666

**International (English):**  
+90 (533) 594 4 389

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

### By mail

**GM Bakır Alaşımları San. Tic. Ltd. Şti.**  
Istanbul Deri Organize Sanayi Bölgesi  
Tav Caddesi, M-4 Parsel, Tuzla 34956  
Istanbul-TURKEY