

## CuCo2Be | Flat bars

DATA SHEET



<b>Alloy</b>	CuCo2Be, CW104C
<b>Condition</b>	drawn, solution annealed, hardened
<b>Norm</b>	DIN EN 12163/12167
<b>Tolerance</b>	DIN 1759 II
<b>Machinability</b>	medium
<b>Hot Workability</b>	good
<b>Cold Workability</b>	good
<b>Electr. Conductivity</b>	app. 43 % IACS / app. 25 MS/m
<b>REACH</b>	no obligation
<b>RoHS</b>	conform

### Mechanical Properties:

	Tensile strength $R_m$	Yield stress $R_{p\ 0,2}$	Elongation A	Hardness HB
<b>R680-H220</b>	$\geq 680\ \text{N/mm}^2$	$\geq 550\ \text{N/mm}^2$	$\geq 10\ \%$	220-270

### Chemical Analysis

Cu Rest
Be 0.4-0.7 %
Co 2.0-2.8 %
Fe max. 0.2 %
Ni max. 0.3 %
Others max. 0.5 %

High strength values when cured. Good temperature resistance. Higher electrical and thermal conductivity and slightly lower hardness and strength values as compared to CuBe2. Hard-wearing. Electrodes for electrical resistance welding or at high welding pressures. Thermal conductivity at 20 °C: 192-239 W/m K, electrical conductivity at 20 °C: 25-32 m/Ω · mm<sup>2</sup>

### Comparable Specifications

CuCo2Be, 2.1285, DIN 17 666
C17500 UNS
C102, BS 2872, 2874