DATA SHEET

CuCo2Be | Round bars

Alloy	CuCo2Be, CW104C
Condition	drawn, solution annealed
Norm	DIN EN 12163:1998
Tolerance	DIN 1756, h11
	Ø 6 mm +0/-0.08 mm
	Ø 8-10 mm +0/-0.09 mm
	Ø 11-18 mm +0/-0.11 mm
	Ø 19-30 mm +0/-0.13 mm
	Ø 31-50 mm +0/-0.16 mm
	Ø 51-91 mm +0/-0.19 mm
Machinability	medium
Hot Workability	good
Cold Workability	good
Electr. Conductivity	app. 43 % IACS / app. 25 MS/m
REACH	no obligation
RoHS	conform

Mechanical Properties:

	Tensile strength R_m	Yield stress $R_{p\,0,2}$	Elongation A	Hardness HB
R680-H220	≥ 580 N/mm²	≥ 550 N/mm²	≥ 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 · mm²

Comparable Specifications

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

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