DATA SHEET

CuBe2 | Round bars

Alloy	CuBe2, CW101C
Condition	drawn, solution annealed, not hardened from Ø 61 mm forged and premachined
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 51-60 mm +0/-0.19 mm from Ø 61 mm forged +1/-0 mm
Machinability	medium
Hot Workability	good
Cold Workability	good
Electr. Conductivity	app. 26% IACS / app. 15 MS/m
REACH	no obligation
RoHS	conform

Mechanical Properties

	Tensile strength R_m	Yield stress $R_{p\,0,2}$	Elongation A	Hardness HB
Ø 10-25 mm R650-H190	≥ 650 N/mm²	app. 500 N/mm²	≥ 8%	190-240
Ø 30-40 mm R600-H170	≥ 600 N/mm²	app. 480 N/mm²	≥ 10%	170-230
Ø 50-100 mm R580-H155	≥ 580 N/mm²	app. 450 N/mm²	≥ 10%	155-220

Chemical Analysis

Cu Rest
Be 1.8-2.1%
Co max. 0.3%
Fe max. 0.2%
Ni max. 0.3%
Others max. 0.5%

The strength values stated above refer to an annealed state. Curing does not normally take place until after processing. Very high strength values when cured. Good temperature resistance, at low temperatures down to approx. -200 °C and at high temperatures up to approx. 350 °C. High wear resistance. Springs of all kinds, membranes, hard-wearing parts, non-sparking and non-magnetic tools, moulds for plastic processing. Thermal conductivity at 20 °C: 92-125 W/m K, electrical conductivity at 20 °C: 8-18 m/Ω · mm²

Comparable Specifications

CuBe2, 2.1247, DIN 17 666
C 17 200 UNS

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