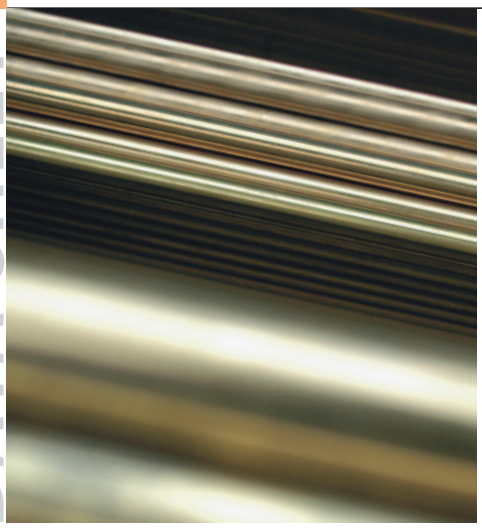
DATA SHEET

CuCr1Zr | Sheets



Alloy	CuCr1Zr, CW106C
Condition	hot rolled – solution annealed
Norm	DIN EN 12163 (chem. properties)
Tolerance	Thickness 3-5 mm +0/-0,3 mm
	Thickness 8-15 mm +1/-0 mm
	Thickness 20-30 mm +1,5/-0 mm
Machinability	medium
Hot Workability	good
Cold Workability	good
Electr. Conductivity	app. 79% IACS / app. 46 MS/m
REACH	no obligation
RoHS	conform

Mechanical Properties:

	Tensile strength R_m	Yield stress $R_{p\,0,2}$	Elongation A	Hardness HB
R370-H125	≥ 370 N/mm²	≥ 270 N/mm²	≥ 12%	120-150

Chemical Analysis

Cu Rest
Cr 0.5-1.2%
Zr 0.03-0.3%
Fe max. 0.08%
Si max. 0.1%
Others max. 0.2%

Very high electrical and thermal conductivity at medium strength values. High softening temperature, long life. Electrodes for resistance welding. Thermal conductivity at 20 °C: 167-320 W/m K, electrical conductivity at 20 °C: 26-48 m/Ω · mm², fully cured approx. 43-48 m/Ω · mm²

Comparable Specifications

CuCrZr, 2.1293, DIN 17666
C18150 UNS
C 102, BS 2872, 2874

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