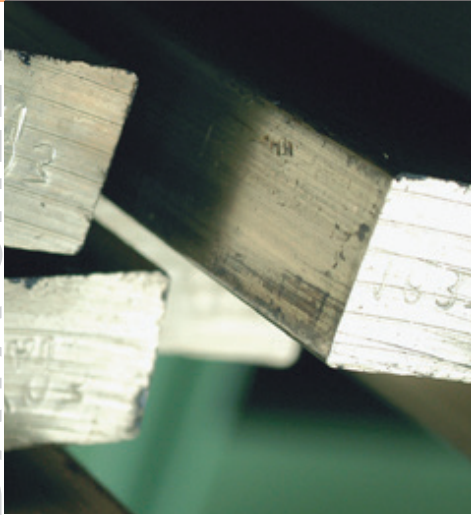


CuCr1Zr | Flat bars

DATA SHEET



Alloy	CuCr1Zr, CW106C
Condition	drawn, solution annealed, hardened
Norm	DIN EN 12163 / 12167
Tolerance	DIN 1759 / 1761 Gr.II
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 $R_{p0,2}$	Elongation A	Hardness HB
< 50 mm thickness R430-H135	$\geq 430 \text{ N/mm}^2$	$\geq 350 \text{ N/mm}^2$	$\geq 10\%$	135-175
> 51 mm thickness R370-H120	$\geq 370 \text{ N/mm}^2$	$\geq 250 \text{ N/mm}^2$	$\geq 16\%$	120-160

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
C102, BS 2872, 2874