## **CUPRO B2**

Chemical Composition (%)	Be 1.8-2.1	Ni max 0.3	Co max 0.3	F 3 max	e 0.2	Others max 0.5	Cu rest
Code	DIN: 2.1247, EN: CW101C, UNS No: C17200						
Material Properties	Hard copper alloy with the highest hardness. Very high mechanical properties with a reasonably good thermal and electrical conductivity. Optionally delivered in hardened or solution treated (220-240 HB).						
Application Area	Flash welding dies, rim and chain welding, In the plastic moulds as chill plates and insert in the moulds, cooling pins and neck rings or bottom plates for blow moulds of plastic bottles, parts for electrical components, safety tools due to non-sparking, non-magnetic and corrosion resistant features.						
Heat Treatment	Delivered in heat treated condition.						
Mechanical Properties	HardnessHTensile strengthNYield strengthNElongation L=5D%Modulus of elasticityG(20 °C)G		HB N/mm² N/mm² % GPa	340-390   1100-1300   900-1100   4-9   128			
Physical Properties	Electrical conductivity Coefficient of thermal expansion (273 - 573 K)			M	S/m ) <sup>-6</sup> /K	15 17.5	
	Thermal conductivity (20 °C)			) (V	V/mK)	) 106	
	Density			(0	g/cm³)	8.3	