## **CUPRO CNB**

Chemical Composition	Be Ni 0.4-0.7 0.8-1.3	Co 0.8-1.3	Others max 0.5	Cu i rest	
Code	EN: CW103C, UNS No: C17540				
Material Properties	Hard copper alloy with high thermal conductivity amd high mechanical properties combined with good hardness and high temperature strength.				
Application Area	Spot welding electrodes and seam welding discs for stainless steel, monel and nickel alloys, flash welding dies, wire mesh electrodes, plastic blow and injection moulds and inserts in steel tools for higher cooling rates, nozzles and needles for hot runner systems, plunger tips in aluminum die casting machines, moulds for non-ferrous metal castings (as copper, brass, bronze), welding tools in plastic packaging.				
Heat Treatment	Delivered in heat treated condition.				
Mechanical Properties	Hardness Tensile strengt Yield strength Elongation L:50 Modulus of elas (20°C)	h d sticity	HB (N/mm²) (N/mm²) % GPa	230-260 700-900 600-700 10-15 130	- - -
Physical Properties	Electrical conduc Coefficient of the expansion (273 -	tivity rmal 573 K)	MS/m 10 <sup>-6</sup> /K	25-30 17	-
	Thermal conduct	vity(20°C)	W/m.K g/cm <sup>3</sup>	200-230 8.75	-