

CUPRO NB

Chemical Composition	Be	Ni	Co	Others	Cu
	0.2-0.6	1.4-2.4	max 0.3	max 0.5	rest

Code DIN:2.0850, EN: CW110C, UNS No: C17510

Material Properties / Application Area Cupro NB has higher electrical and thermal conductivity although the areas of use are the same as Cupro CNB. Able to be used in spot welding electrodes, welding discs, electrodes of projection and butt welding and welding of stainless steels, Able to be used in parts of plastic injection mould, Able to be used as a permanent mould in casting of alloys like copper brass and bronze, Able to be used in electrodes of wire mesh machines, Able to be used in pistons of aluminium injection castings.

Heat Treatment Delivered in heat treated condition.

Mechanical Properties	Hardness	HB	200-240
	Tensile strength	(N/mm ²)	700-800
	Yield strength	(N/mm ²)	550-700
	Elongation L:5d	%	10-15
	Modulus of elasticity (20 °C)	GPa	135

Physical Properties	Electrical conductivity	MS/m	32-40
	Coefficient of thermal expansion (273-573 K)	10 ⁻⁶ /K	17.2
	Thermal conductivity (20 °C)	W/m.K	300
	Density	g/cm ³	8.8
