

CUPRO NSS[®]

Chemical Composition	Ni	Si	Cr	Others	Cu
	2.4-2.8	0.6-0.8	0.3-0.5	max 0.4	rest

Code	© SM
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Material Properties	It exhibits high mechanical properties without containing beryllium. It covers all application areas where Cupro CNB and Cupro CB is used.
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Application Area	Spot welding electrodes, seam welding discs, projection and butt welding dies, brass and bronze die casting moulds, plastic injection mould parts and inserts, injection nozzles and cooling pins, electrode holders and seam welding shafts.
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Heat Treatment	Delivered in heat treated condition.
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Mechanical Properties	Hardness	HB	190-230
	Tensile strength	N/mm ²	600-800
	Yield strength	N/mm ²	500-600
	Elongation L=5D	%	10-15
	Modulus of elasticity (20 °C)	GPa	140

Physical Properties	Electrical conductivity	MS/m	22 - 27
	Coefficient of thermal expansion (273 - 573 K)	10 ⁻⁶ /K	17
	Thermal conductivity (20 °C)	(W/m.K)	190-230
	Density	(g/cm ³)	8.8