

Chemical Composition	Ni	Si	Others	Cu
	1.6-2.5	0.4-0.8	max 0.3	rest

Code DIN: 2.0855, EN: CW111C, UNS No: C70260

Material Properties It is a precipitation hardened, multipurpose alloy exhibiting high strength characteristics, together with excellent wear properties whilst still retaining high electrical and heat conductivity properties.

Application Area Spot welding electrodes, seam welding discs, projection and butt welding dies for stainless steel and monel, electrode holders and seamwelding shafts, plastic injection mould parts and inserts, injection nozzles and cooling pins, nozzles and needles for hot runner systems, plunger tips for cold chamber aluminum and magnesium die casting machines, chill moulds for non-ferrous metal castings (as brass, bronze), brake drums for paper winding rolls.

Heat Treatment Delivered in heat treated condition.

Mechanical Properties	Hardness	HB	160-220
	Tensile strength	N/mm ²	490-640
	Yield strength	N/mm ²	340-520
	Elongation L=5D	%	12-15
	Modulus of elasticity (20 °C)	GPa	130

Physical Properties	Electrical conductivity	MS/m	22-27
	Coefficient of thermal expansion (273 - 573 K)	10 ⁻⁶ /K	17
	Thermal conductivity (20 °C)	(W/mK)	210
	Density	(g/cm ³)	8.8