

DATA SHEET

Fabricated Metal Products

Alloy Designation	
EN	CuSn2Ni0.3P
DIN	CuSn2Ni0.3P
UNS	C50710
JIS	C5071/ (MF202*)

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Chemical Composition					
Ni Sn	0.1 - 0.4 1.7 - 2.5	% %			
P Cu	max. 0.15 Remainder	%			

Characteristics

C50710 is based on phosphor bronze, with approximately 2% tin and small amounts of nickel and phosphorus added to copper. It has high electrical conductivity and is comparable in strength to C51100, but with twice the conductivity. It has good elasticity, heat resistance, corrosion resistance, in many cases can replace Phosphor Bronze.

Main Applications
Electrical and electronic connectors
Automobile Connectors Switch parts
The terminal member
Battery connector Busbar

Physical Properties (Reference values at room temperature)					
Density	g/cm3	8.88			
Electrical conductivility	IACS%(20°C)*	32			
Modulus of elasticity	KN/mm ²	120			
Coefficient of thermal expansion	10 ⁻⁶ /K	17			
Thermal conductivity	W/(m*K)	155			

*value for the lowest temper class

Mechanical Properties								
TEMPER		Tensile Strength	Yield Strength	Elongation	Hardness	Bending Test(90°)		
		Мра	Мра	%	HV	GW	BW	
Н02	1/2H	410 - 520	-	min. 10	125 - 170	0	0	
H04	Н	490 - 590	-	min. 5	150 - 190	1.5	1.5	
Н06	ЕН	540 - 640	-	min. 2	170 - 210	2	2	

Contact Us:

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