

3.9 CuSn4 - C51100 - CW450K

Application Range													
Contact springs, connectors, membranes, switch elements, fixed contacts. Ultra-high strength spring elements													
Physical Properties							Chemical Position (reference value) %						
Density *	g/cm ³		8.85		Cu		Rest						
Thermal conductivity *	W/(m·k)		100		Sn		3.5 - 4.5						
Electr. conductivity ***	MS/m		11		P		0.01 - 0.4						
Electr. conductivity ***	IACS (%)		19										
Thermal expansion c. **	10 ⁻⁶ K		17.8										
Modulus of elasticity *	Gpa		120										
Condition	Temper class	Tensile strength T.S. min. - max. MPa	Yield strength Rp 0.2		Elongation A50		Hardness (reference value) HV	Electr. Conductivity MS/m	Bendability 90° ^{1) 2) 3)} Strip thickness ≤0.5mm				
			min. MPa	min. MPa	min. %	R/t			GW		BW		
						3)			4)	3)	4)	Stretch leveled	Thermal stress relieved

*Reference values at room temperature

**Between 20 and 300 °C

*** Values for the lowest temper class

¹⁾ r = x · t (strips up to t = 0.50 mm)

²⁾ Sample width = 10 mm / bending at smaller bending widths on request (Evaluation according to page 5.4.2. of Hand-Out)

³⁾ Valid only as thermal stress relieved qualities

⁴⁾ Thermal stress relieved

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