

CuSn2Zn2Fe0.1P-C50725

Application Range										
Connectors										
Physical Properties							Chemical Position (reference value) %			
Density *		g/cm ³		8.9			Cu		Rest	
Thermal conductivity *		W/(m· k)		150			Sn		1.5-2.5	
Electr. conductivity ***		MS/m		17.5			Zn		1.5-3.0	
Electr. conductivity ***		IACS (%)		30			Fe		0.05-0.20	
Thermal expansion c. **		10 ⁻⁶ K		17.5			P		0.02-0.06	
Modulus of elasticity *		Gpa		113			Other		max. 0.50	
Condition	Temper class	Tensile strength	Yield strength	Elongation	Hardness	Electr. Conductivity	Bendability		Bendability	
		T.S.	Rp 0.2	A50	(reference value)		R/t ^{1) 2) 3)}		R/t ^{1) 2) 3)}	
		min. - max.	min.	min.	HV		90°		180°	
		MPa	MPa	%		MS/m	GW	BW	GW	BW
				³⁾			Strip thickness ≤0.5mm	Strip thickness ≤0.5mm	Strip thickness ≤0.5mm	Strip thickness ≤0.5mm
Cold rolled	R390	390-500	280	20	min.130	17.5	0	0	0	0
Cold rolled	R510	510-600	470	9	min.150	17.5	0	0	0.5	1
Cold rolled	R550	550-630	510	5	min.175	17.5	0	0	1	1.5
Cold rolled	R600	600-670	575	3	min.190	17.5	1	1.5	2	2.5

*Reference values at room temperature

**Between 20 and 300 °C

*** Values for the lowest temper class

- 1) $r = x \cdot t$ (strips up to $t = 0.50\text{ mm}$)
- 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

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