

C19210 - CuFe0,1P - C19210



Application range:

Connectors, relays, springs

Physical properties

Density*	g/cm ³	8,9
Thermal conductivity*	W/(m·K)	350
Electr. Conductivity ***	MS/m	50
Electr. Conductivity ***	IACS (%)	86
therm. Expansion coefficient **	10 ⁻⁶ K	17
Modulus of elasticity*	GPa	125

Chemical composition (%)

Cu:	Rest
Fe:	0,05-0,15
P:	0,025 - 0,04
Other:	max. 0,5

Condition	Temper class	Tensile strength T.S. min.-max. MPa	Yield strength Rp 0,2 min. MPa	Elongation A50 min. %	Hardness (Reference value) HV	Electrical conduc- tivity MS/m	Bendability		Bendability	
							R/t ^{1) 2) 3)} 90°		R/t ^{1) 2) 3)} 180°	
							gw Strip thickness ≤0,5 mm	bw Strip thickness ≤0,5 mm	gw Strip thickness ≤0,5 mm	bw Strip thickness ≤0,5 mm
cold rolled	R300	300 - 380	max. 300	10	80 - 110	50	0	0	0	0
cold rolled	R360	360 - 440	260	3	100 - 130	50	0	0	-	-
cold rolled	R420	420 - 500	350	2	120 - 150	50	-	-	-	-

* Reference values at room temperat ** Between 20 and 300 °C

*** Values for the lowest temper class

³⁾ values for stress relieved qualities

¹⁾ $r = x \cdot t$ (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)

Disclaimer: Due to possible changes and variations in the production process, the information published in the hand-out / brochure / datasheet cannot be guaranteed. The right to changes and modifications in the composition of the products is hereby explicitly reserved, so no warranty claim shall be derived from the information provided.

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