

## CuFe0,1P

Mechanical properties		Temper conditions				
		0 R300 HV80	H02 R360 HV100	H04 R390 HV110	H06 R415 HV130	H08 R450 HV140
Tensile strength in N/mm <sup>2</sup>		300 – 380	360 – 440	390 – 450	415 – 480	450 – 520
0,2% yield strength in N/mm <sup>2</sup>		< 300	280	330	380	430
Vickers hardness HV		80 – 110	110 – 130	110 – 140	120 – 145	130 – 160
Elongation A <sub>L50%</sub>		> 15	> 6	> 3	> 3	> 2
Bendability						
0.10 ≤ s ≤ 0.25 mm	Transverse	0 x s	0 x s	1 x s	1 x s	1.5 x s
	Parallel	0 x s	0 x s	1 x s	1 x s	1.5 x s
0.25 < s ≤ 0.5 mm	Transverse	0 x s	0 x s	1 x s	1 x s	-
	Parallel	0 x s	0 x s	1 x s	1.5 x s	-

### Physical properties

Thermal expansion coefficient 20 ... 300 °C	17	10 <sup>-6</sup> /K
Density	8.9	g/cm <sup>3</sup>
Thermal conductivity	430	W/(m·K)
Modulus of elasticity ( 1 GPa = 1 kN/mm <sup>2</sup> ) cold formed	125	GPa = kN/mm <sup>2</sup>
Electrical conductivity soft	49	MS/m

### Material designation

DIN EN Symbol	CuFe0,1P
UNS	C19210
JIS	C1921

### Chemical composition

Cu	Balance
Fe	0.1 %
P	0.03 %
Other	< 0.1 %

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