

CuFe2P

Mechanical properties		Temper condition			
		H02 R370 HV110	H04 R415 HV125	H08 R480 HH140	H10 R530 HV150
Tensile strength in N/mm ²		370 – 430	415 – 480	480 – 525	530 – 570
0,2% yield strength in N/mm ²		330	380	440	470
Vickers hardness HV		110 – 140	125 – 145	140 – 160	150 – 170
Elongation A _{L50%}		> 8	> 4	> 3	> 3
Bendability					
0.10 ≤ s ≤ 0.25 mm	Transverse	0 x s	0.5 x s	0.5 x s	1 x s
	Parallel	0 x s	0.5 x s	1.0 x s	1.5 x s
0.25 < s ≤ 0.5 mm	Transverse	0 x s	1 x s	1 x s	1.5 x s
	Parallel	0 x s	1 x s	2 x s	3 x s
Physical properties (Typical values in annealed temper at 20 °C)					
Thermal expansion coefficient 20 ... 300 °C			16.3	10 ⁻⁶ /K	
Specific heat capacity			0.385	J/(g·K)	
Density			8.8	g/cm ³	
Thermal conductivity			260	W/(m·K)	
Thermal coefficient of electrical resistance (0 ... 100 °C)			3.3	10 ⁻³ /K	
Modulus of elasticity (1 GPa = 1 kN/mm ²) cold formed			125	GPa	
Electrical conductivity (IACS)			60	%	
Material designation					
DIN EN			CW107C		
UNS			C19400		
Chemical composition					
Cu	Rest %				
Fe	2.1 ... 2.6 %				
Zn	0.05 ... 0.2 %				
Other	≤ 0.2 %				
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