

# CU Fe 2P

Réf. ASTM n°UNS : C19400

Réf. Normes Européennes : CW0107C

### Indicative Chemical Composition

Cu :	solde
Fe :	2,4 %
others :	< 0,38%

### TYPICAL APPLICATIONS

electronics components and Electrical parts :	Semi conductor, transistors and diode supports Central electrical interconnection, Connectors, Contact holders
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### MECHANICAL CHARACTERISTICS (European Standard : EN 1758)

Temper H :		H 120 (1)	H 130 (1)	H 140 (2)	H 150 (2)
Hardness	HV	120-140	130-150	140-160	150-170

Temper R :		R 370 (1)	R 420 (1)	R 470 (2)	R 520 (2)
Tensile Strength	TS (MPa)	370-430	420-480	470-530	520-580
Elongation	E50 (%)	≥ 6	≥ 3		

### BENDING RADIUS FOLLOWING THE THICKNESS RELATED TO TEMPER ABOVE

Radius of Bending (3)	90° Good Way	0 × t	0,5 × t	1 × t	(4)
	90° Bad Way	0 × t	1 × t	2,5 × t	(4)

### MECHANICAL CHARACTERISTICS FOLLOWING OLD STANDARDS

TEMPER OF OLD NF STANDARDS		0	H 12	H 13	H 14,1	H 14,2
Hardness	HV	80-120	120-140	130-150	140-160	≥ 150
Tensile Strength	TS (MPa)	300-390	370-430	420-480	470-530	≥ 520
Yield Strength	YS 0,2 (MPa)	≤ 240	≥ 330	≥ 380	≥ 440	≥ 460
Elongation	E50 (%)	8	4	1	—	—
Radius of bending (3)	90° Good Way	0 × t	0 × t	0,5 × t	1 × t	(4)
	90° Bad Way	0 × t	0 × t	1 × t	2,5 × t	(4)

### PHYSICAL CHARACTERISTICS (at 20°C) (5)

Density (Kg/dm <sup>3</sup> )	Electrical Conductivity (% IA CS)	Electrical Resistivity (μΩ,cm)	Thermal Conductivity (W/m,K)	Modulus of Elasticity (kN/nm <sup>2</sup> )	Thermal Expansion (10-6/K)	Melting Temperature (°C)
8,78	> 60	< 2,86	260	123	17	1080-1090

(1) For Thickness < 2 mm

(2) For Thickness < 1 mm

(3) Bending radius is expressed as a function of thickness (t) of the strip

(4) Bending possible to be defined with Griset

(5) values for annealed temper

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