REYNOLDS CUIVRE S.A.s

Cu-ETP

Mechanical properties	Temper conditi on				
	R200	**R220**	**R240**	**R290**	**R360**
Tensile strength in N/mm² ref only	200-250	220-260	240-300	290-360	≥ 360
0,2% yield strength in N/mm²	≤ 100	< 140	≥ 180	≥ 250	≥ 320
Vickers hardness HV	40-65	40-65	65-95	90-110	≥ 110
Elongation $A_{L50\%}$	min 42	min. 33	min. 8	min. 4	min. 2

Physical properties (Typical values in annealed temper at 20 ºC)		
Thermal expansion coefficient -191 … 16ºC	14.1	10^{-6}/K
0 …300ºC	17.7	10^{-6}/K
Specific heat capacity	0.386	J/(g·K)
Density	8.93	g/cm³
Thermal conductivity	394	W/(m·K)
Thermal coefficient of electrical resistance (0 … 200ºC)	3.7	10^{-3}/K
Modulus of elasticity (1 GPa = 1 kN/mm²) cold formed	130	GPa
annealed	110	GPa
Electrical conductivity (1 MS/m = 1 m/(I mm²)	≥ 58	MS/m
Electrical conductivity (IACS)	100	%

Material designation	
EN	Cu-ETP (E-Cu, E-Cu58)
UNS	C11000
DIN CEN/TS 13388	CW004A
JIS	C1100

Chemical composition	
Cu	≥ 99.90 %
O	0.005 .. 0.040 %

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