REYNOLDS CUIVRE S.A.s

CuZn30

Mechanical properties		Temper condition							
		M20 HV55-90	H01 HV90-125	H02 HV120-150	H03 HV100-140	H04 HV115-150	H06 HV130-170	H08 HV150-190	H10 HV155-195
Tensile strength in N/mm2		285-350	340-405	395-460	440-510	490-560	545-615	625-690	655-715
0,2% yield strength in N/mm^2		<160	>240	>360	>390	>440	>520	>590	>610
Vickers hardness HV (ref.value)		55-90	190-125	120-150	130-160	150-180	170-200	190-220	200-230
Elongation $A_{L50\%}$		> 45	> 30	> 17	> 14	> 12	> 8	>2	-
Bendability									
0.10 ≤ s ≤ 0.25mm	Transverse	0 x t	0 x t	0 x t	0 x t	0 x t	0.5 x t	2 x t	-
	Parallel	0 x t	0 x t	0 x t	0 x t	0 x t	1 x t	5 x t	-
0.25 < s ≤ 0.5mm	Transverse	0 x t	0 x t	0 x t	0 x t	0 x t	1 x t	2 x t	-
	Parallel	0 x t	0 x t	0 x t	0 x t	0.5 x t	2 x t	6 x t	-

Physical properties (Typical values in annealed temper at 20 ° :)		
Thermal expansion coefficient 20 … 300 ºC	19.6	10^{-6}/K
Specific heat capacity	0.377	J/(g·K)
Density	8.5	g/cm^3
Thermal conductivity	124	W/(m·K)
Thermal coefficient of electrical resistance (0 … 100 ºC)	1.5	10^{-3}/K
Modulus of elasticity (1 GPa = 1 kN/mm^2) cold formed	115 max.	GPa
Electrical conductivity (IACS)	28	%

Material designation	
DIN EN	CW505L
UNS	C26000

Chemical composition	
Cu	Rest %
Sn	<0.05 %
Zn	30 %
Other	≤ 0.375 %

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