

CuZn10

Mechanical properties		Temper condition					
		H00 HV50-80	H01 HV80-110	H02 HV110-135	H03 HV125-150	H04 HV150-170	H05 HV160
Tensile strength in N/mm ²		230-290	280-360	350-420	420-490	440-500	>480
0,2% yield strength in N/mm ²		<140	>200	>290	>380	>410	>460
Vickers hardness HV		50-80	80-110	110-135	125-150	150-170	>160
Elongation A _{L50%}		> 40	> 28	> 8	> 5	>2	>1
Bendability							
0.10 ≤ s ≤ 0.25 mm	Transverse	0 x t	0 x t	0 x t	0 x t	0 x t	-
	Parallel	0 x t	0 x t	0 x t	0 x t	1 x t	-
0.25 < s ≤ 0.5 mm	Transverse	0 x t	0 x t	0 x t	0 x t	0 x t	-
	Parallel	0 x t	0 x t	0.5 x t	1 x t	3 x t	-

Physical properties (Typical values in annealed temper at 20 °C)		
Thermal expansion coefficient 20 ... 300 °C	18.4	10 ⁻⁶ /K
Specific heat capacity	0.376	J/(g·K)
Density	8.8	g/cm ³
Thermal conductivity	184	W/(m·K)
Thermal coefficient of electrical resistance (0 ... 100 °C)	1.8	10 ⁻³ /K
Modulus of elasticity (1 GPa = 1 kN/mm ²) cold formed	124	GPa
Electrical conductivity (IACS)	42-40	%

Material designation	
DIN EN	CW501L
UNS	C22000

Chemical composition	
Cu	Rest %
Sn	<0.05 %
Zn	10 %
Other	≤ 0.4 %

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