

CuZn15

Mechanical properties		Temper condition					
		H00 HV55-85	H01 HV85-120	H02 HV100-150	H03 HV125-155	H04 HV150-180	H05 HV170
Tensile strength in N/mm ²		250-300	300-370	350-420	410-490	480-560	>550
0,2% yield strength in N/mm ²		<150	>200	>270	>350	>390	>450
Vickers hardness HV (ref. only)		55-85	85-120	100-150	125-155	150-180	>160
Elongation A _{L50%}		> 40	> 25	> 15	> 9	>6	>3
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	0.5 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 x t	0.5 x t	2 x t	-

Physical properties (Typical values in annealed temper at 20 °C)		
Thermal expansion coefficient 20 ... 300 °C	18.5	10 ⁻⁶ /K
Specific heat capacity	0.377	J/(g·K)
Density	8.75	g/cm ³
Thermal conductivity	159	W/(m·K)
Thermal coefficient of electrical resistance (0 ... 100 °C)	2.6	10 ⁻³ /K
Modulus of elasticity (1 GPa = 1 kN/mm ²) cold formed	122	GPa
Electrical conductivity (IACS)	34-32	%

Material designation	
DIN EN	CW502L
UNS	C23000

Chemical composition	
Cu	Rest %
Sn	<0.05 %
Zn	15 %
Other	≤ 0.4 %

This information was given with the best knowledge, but cannot guarantee any characteristics we describe listed above. The contract terms of Sofia Med agreed with any individual customer and our general conditions of sales describe the liability of these conditions. In any case do we reserve the right by technical development or any other reason to modify this sheet according to our needs. This data sheet is part of a technical modification service done case by case.