

CuZn0,5

Mechanical properties		Temper condition				
		H00 HV40-65	H01 HV65-95	H02 HV85- 115	H03 >110	
Tensile strength in N/mm ² ref only		220-260	240-300	290-360	>360	
0,2% yield strength in N/mm ²		<140	>180	>250	>320	
Vickers hardness HV		45-65	75-105	100-140	115-150	
Elongation A _{L50%}		> 33	> 8	-	-	
Bendability						
0.10 ≤ s ≤ 0.25 mm	Transverse	0 x t	0 x t	0 x t	0 x t	
	Parallel	0 x t	0 x t	-	-	
0.25 < s ≤ 0.5 mm	Transverse	0 x t	0 x t	-	-	
	Parallel	0 x t	0 x t	-	-	

Physical properties (Typical values in annealed temper at 20 °C)		
Thermal expansion coefficient 20 ... 300 °C	17.7	10 ⁻⁶ /K
Specific heat capacity	0.386	J/(g·K)
Density	8.92	g/cm ³
Thermal conductivity	350	W/(m·K)
Thermal coefficient of electrical resistance (0 ... 100 °C)	3.2	10 ⁻³ /K
Modulus of elasticity (1 GPa = 1 kN/mm ²) cold formed	125	GPa
Electrical conductivity (IACS)	79-88	%

Material designation	
DIN EN	CW119C
UNS	Not indicated

Chemical composition	
Cu	Rest %
P	<0.02 %
Zn	0.1-1 %
Other	≤ 0.1 %

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