

CuZn23Al3Co

Mechanical properties		Temper conditions				
		0 HV150-180	H01 HV175-210	H02 HV190-220	H04 HV210-240	H06 HV230-260
Tensile strength in N/mm ²		540-600	600-700	660-750	740-830	820-910
0,2% yield strength in N/mm ² min		430	510	580	660	780
Vickers hardness HV		150-180	175-210	190-220	210-240	230-260
Elongation A _{L50%}		>30	>13	>8	>3	>2
Electrical conductivity in % IACS		17	17	17	16	16
Bendability						
0.10 ≤ s ≤ 0.25 mm	Transverse	0 x s	0 x s	0 x s	1 x s	3 x s
	Parallel	0 x s	0 x s	0 x s	1.5 x s	10 x s
0.25 < s ≤ 0.5 mm	Transverse	0 x s	0 x s	0 x s	2 x s	-
	Parallel	0 x s	0 x s	1 x s	2 x s	-

Physical properties		
Thermal expansion coefficient 20 ... 300 °C	18.2	10 ⁻⁶ /K
Density	8.2	g/cm ³
Thermal conductivity	78	W/(m·K)
Modulus of elasticity (1 GPa = 1 kN/mm ²) cold formed	115	GPa = kN/mm ²
Electrical conductivity soft	10	MS/m

Material designation		
DIN EN Symbol		CuZn23Al3Co
UNS		C68800
JIS		C6880
Chemical composition		<p><i>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.</i></p> <p><i>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.</i></p>
Cu	Balance	
Zn	23 %	
Al	3 %	
Co	0.4 %	
Fe	<0.05	
Ni	<0.1	
Others	< 0.105	