

Material Designation			Nominal Composition (mass content in %)		About The Alloy	
DIN-EN Symbol	CuZn30		Cu	Balance	MB30 is a brass having superior workability, drawability and good properties on plating. Among the Copper Zinc Alloys MB30 exhibits a high electrical and thermal conductivity as well an intermediate high modulus of elasticity at a moderate strength level.	
DIN-EN	CW505L		Sn	< 0,05		
UNS	C26000		Zn	30		
JIS	C2600		Ni	< 0,2		
			Fe	< 0,05		
Physical Properties			Al	< 0,02	The colour of MB30 is due to the increased Zn content already yellow. Applications are found in terminal connectors and for cups. MB30 is an single phase Copper alloy and available in a temper condition which allows extraordinary good cold forming and deep drawing with almost no earring.	
			Pb	< 0,005		
			Other	< 0,1		
			Typical Applications			<ul style="list-style-type: none">• Jewellery• Metal ware• Transistor carriers• Deep drawing parts• Stamped-bent parts• Connectors
			Electrical conductivity soft	15,7		
Thermal conductivity	124	W/(m·K)				
Thermal expansion coefficient **	19,6	10-6/K				
Density	8,5	g/cm³				
Modulus of elasticity	115	GPa = kN/mm²				
* Reference values at room temperature						
** Between 20 and 300 °C						
					The alloy is registered with the U.S. EPA as Antimicrobial and with respect to Pb and Cd meets the OEKO-TEX Standard 100.	

Mechanical Properties *)

Temper condition		O30 R 270 H 55	H01 R 350 H 90	H02 R 410 H 120	H04 R 480 H 150	H06 R 540 H 170	H08 R 630 H 190
Tensile strength in N/mm ²		270 - 350	350 - 430	410 - 490	480 - 560	540 - 620	> 630
0.2 % yield Strength in N/mm ²		< 160	> 240	> 370	> 440	> 520	> 610
Elongation A _{L50} %		> 45	> 30	> 15	> 12	> 8	> 2
Vickers hardness HV		55 - 90	90 - 125	120 - 150	150 - 180	170 - 200	> 190
Electrical conductivity in % IACS		27	27	26	26	25	25
Minimum radius of the bending mandrel for 90° bend and strip thickness s							
0.10 ≤ s ≤ 0.25 mm	transverse	0 x s	0 x s	0 x s	0 x s	0.5 x s	2 x s
	parallel	0 x s	0 x s	0 x s	0 x s	1 x s	5 x s
0.25 < s ≤ 0.50 mm	transverse	0 x s	0 x s	0 x s	0 x s	1 x s	2 x s
	parallel	0 x s	0 x s	0 x s	0.5 x s	2 x s	6 x s

*) Reference values

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Processing Instructions

Cold forming properties	very good
Machinability	satisfactory
Electroplating properties	very good
Hot-dip tinning properties	very good
Soldering	very good
Resistance welding	good
Gas shielded arc welding	satisfactory
Laser welding	sufficient

Available Versions

Coils with standard outer diameters of 1200 mm
Strips in reel form with coil weight of up to 1500 kg
Multipancake up to 2.5 t
Hot-dip tinned strips
Profiled strips
Electroplated strips (tin, nickel)

Available Dimensions

Bright pre-rolled strips 1 to 2.5 mm
Precision strip thickness from 0.05 to 1.2 mm
Strip width from 3.0 to 600 mm, but at least 10 times of the strip thickness
Other widths available on request

Your Local Contact Person

Europe

Asia



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