

Material Designation			Nominal Composition (mass content in %)		About The Alloy
DIN-EN Symbol	CuZn36		Cu	Balance	MB36 is a brass having good workability, drawability and good properties on plating. Among the Copper Zinc Alloys MB36 exhibits a high electrical and thermal conductivity at a moderate strength level. The colour of MB36 is due to the increased Zn content already deep yellow. Applications are found in terminal connectors, stamped and deep drawn parts.
DIN-EN	CW507L		Sn	< 0,05	
UNS	C27000		Zn	36	
JIS	C2700		Ni	< 0,2	
Physical Properties			Fe	< 0,05	The colour of MB36 is due to the increased Zn content already deep yellow. Applications are found in terminal connectors, stamped and deep drawn parts.
			Al	< 0,02	
			Pb	< 0,005	
			Other	< 0,1	
Electrical conductivity soft	14,5	MS/m	Typical Applications		MB36 is an single phase Copper alloy and available in a temper condition which allows good cold forming and deep drawing with almost no earring. MB36 meets with respect to Pb and Cd the OEKO-TEX Standard 100.
Thermal conductivity	120	W/(m·K)	<ul style="list-style-type: none">• Jewellery• Metal ware• Transistor carriers• Deep drawing parts• Stamped-bent parts• Connectors		
Thermal expansion coefficient **	20,2	10-6/K			
Density	8,4	g/cm³			
Modulus of elasticity	110	GPa = kN/mm²			
* Reference values at room temperature					
** Between 20 and 300 °C					

Mechanical Properties *)

Temper condition		O30 R 290 H 55	H01 R 360 H 95	H02 R 410 H 120	H03 R 460 H 140	H04 R 490 H 155	H06 R 550 H 170
Tensile strength in N/mm ²		290 - 370	360 - 440	410 - 490	460 - 530	490 - 560	550 - 640
0.2 % yield Strength in N/mm ²		< 190	> 200	> 300	> 380	> 450	> 500
Elongation A _{L50} %		> 40	> 30	> 15	> 10	> 5	> 1
Vickers hardness HV		55 - 95	95 - 125	120 - 150	140 - 170	155 - 185	170 - 200
Electrical conductivity in % IACS		25	25	24	24	23	23
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 x s	0.5 x s
	parallel	0 x s	0 x s	0 x s	0 x s	0 x s	1 x s
0.25 < s ≤ 0.50 mm	transverse	0 x s	0 x s	0 x s	0 x s	0 x s	1 x s
	parallel	0 x s	0 x s	0 x s	0.5 x s	1 x s	2 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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