

Material Designation			Nominal Composition (mass content in %)		About The Alloy
DIN-EN Symbol	CuZn37		Cu	Balance	MB37 is a brass having good workability, drawability and good properties on plating.
DIN-EN	CW508L		Sn	< 0,05	
UNS	C27200		Zn	37	
JIS	C2720		Ni	< 0,2	
Physical Properties			Fe	< 0,05	Among the Copper Zinc Alloys MB37 exhibits a high electrical and thermal conductivity at a moderate strength level. The colour of MB37 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	
			Typical Applications		
Electrical conductivity soft	14,5	MS/m	<ul style="list-style-type: none">• Jewellery• Metal ware• Transistor carriers• Deep drawing parts• Stamped-bent parts• Connectors		The alloy is registered with the U.S. EPA as Antimicrobial and with respect to Pb and Cd meets the OEKO-TEX Standard 100.
Thermal conductivity	120	W/(m·K)			
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

The information given in this material data sheet, which in any case provides no guarantee of particular characteristics, has been compiled to the best of our knowledge but is given without any obligation on our part. Our liability is determined solely by the individual contract terms, in particular by our general conditions of sale. We reserve the right to make alterations especially where necessitated by technical developments or changes in availability. Please ask for the latest edition of this material data sheet.

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

**Sundwiger Messingwerk GmbH**

Hönnetalstraße 110
58675 Hemer
Deutschland
Tel. +49 2372 661-100
Fax +49 2372 661-48100
E-Mail: sales-sundwig@sundwiger-mw.com
www.sundwiger-mw.com

Sundwiger Metal (Shenzhen) Co. Ltd.

5F, Block 25, Shatoujiao Free Trade Zone
518081 Shenzhen
P.R. of China
Tel. +86 755 2235 7466
Fax +86 755 25260974
E-Mail: sales@sundwiger-mw.com.cn
www.sundwiger-mw.com

The information given in this material data sheet, which in any case provides no guarantee of particular characteristics, has been compiled to the best of our knowledge but is given without any obligation on our part. Our liability is determined solely by the individual contract terms, in particular by our general conditions of sale. We reserve the right to make alterations especially where necessitated by technical developments or changes in availability. Please ask for the latest edition of this material data sheet.