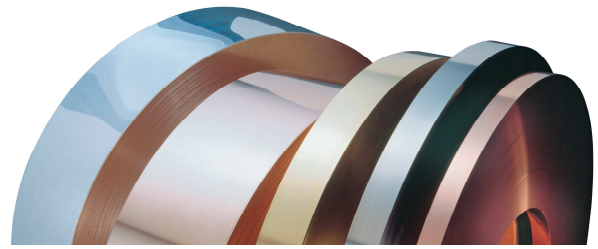


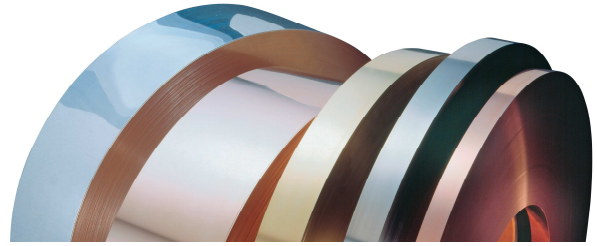
Brass (Copper-Zinc) MB37



Material Designation			Nominal Composition (mass content in %)		About The Alloy
DIN-EN Symbol	CuZn37		Cu	Balance	
DIN-EN	CW508L		Sn	< 0.05	
UNS	C27200		Zn	37	
JIS	C2720		Ni	< 0.2	
Physical Properties			Fe	< 0.05	
			Al	< 0.02	
			Pb	< 0.005	
			Other	< 0.1	
			Electrical conductivity soft		
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 		
Thermal conductivity	120	W/(m·K)			
Thermal expansion coefficient **	20.2	10 ⁻⁶ /K			
Density	8.4	g/cm ³			
Modulus of elasticity	110	GPa = kN/mm ²			
* 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 _{LS0} %		> 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 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.

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)

Your Local Contact Person	
Europe	Asia
<p>SUNDWIGER Messingwerk</p> <p>Sundwiger Messingwerk GmbH</p> <p>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</p>	<p>SUNDWIGER Messingwerk</p> <p>Diehl Metall (Shenzhen) Co. Ltd.</p> <p>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</p>

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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.