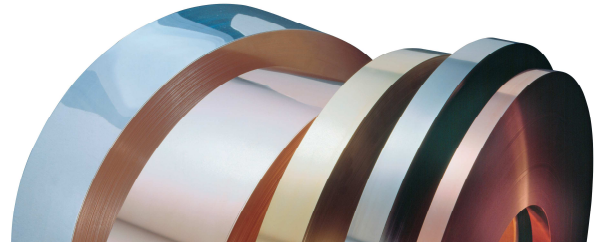


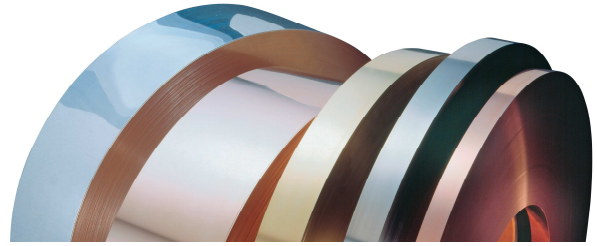
Brass (Copper-Zinc) MB30



Material Designation			Nominal Composition (mass content in %)		About The Alloy
DIN-EN Symbol	CuZn30		Cu	Balance	
DIN-EN	CW505L		Sn	< 0.05	
UNS	C26000		Zn	30	
JIS	C2600		Ni	< 0.2	
			Fe	< 0.05	
			Al	< 0.02	
			Pb	< 0.005	
			Other	< 0.1	
Physical Properties			Typical Applications		
Electrical conductivity soft	15.7	MS/m	<ul style="list-style-type: none"> • Jewellery • Metal ware • Transistor carriers • Deep drawing parts • Stamped-bent parts • Connectors 		
Thermal conductivity	124	W/(m·K)			
Thermal expansion coefficient **	19.6	10 ⁻⁶ /K			
Density	8.5	g/cm ³			
Modulus of elasticity	115	GPa = kN/mm ²			
* Reference values at room temperature ** Between 20 and 300 °C					

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 _{LS0} %		> 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							

Brass (Copper-Zinc) MB30



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
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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.