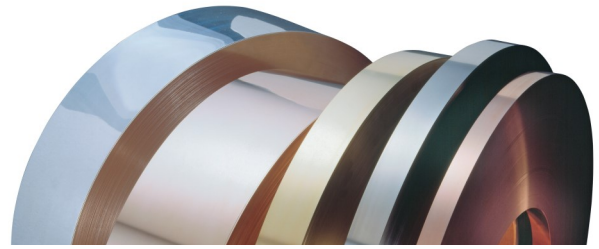


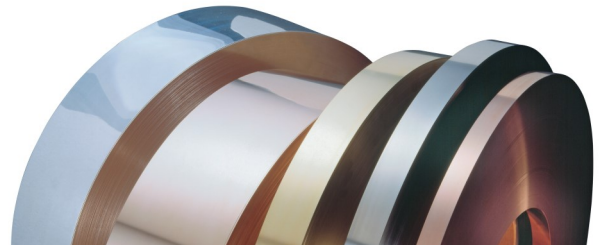
Brass (Copper-Zinc) MB15



Material Designation			Nominal Composition (mass content in %)		About The Alloy
DIN-EN Symbol	CuZn15		Cu	Balance	
DIN-EN	CW502L		Sn	< 0.05	
UNS	C23000		Zn	15	
JIS	C2300		Ni	< 0.2	
The Miller Company	C230		Fe	< 0.05	
			Al	< 0.02	
			Pb	< 0.005	
			Other	< 0.1	
Physical Properties			Typical Applications		
Electrical conductivity soft	19.7	MS/m	<ul style="list-style-type: none"> • Jewellery • Metal ware • Transistor carriers • Deep drawing parts • Stamped-bent parts • Connectors 		
Thermal conductivity	159	W/(m·K)			
Thermal expansion coefficient **	18.5	10 ⁻⁶ /K			
Density	8.8	g/cm ³			
Modulus of elasticity	122	GPa = kN/mm ²			
* Reference values at room temperature					
** Between 20 and 300 °C					

Mechanical Properties *)							
Temper condition		O30 R 250 H 55	H01 R 300 H 85	H02 R 350 H 105	H03 R 400 H 120	H04 R 440 H 140	H06 R 495 H 160
Tensile strength in N/mm ²		250 - 300	300 - 370	350 - 420	400 - 460	440 - 500	> 495
0.2 % yield Strength in N/mm ²		< 150	> 200	> 270	> 350	> 390	> 450
Elongation A _{L50} %		> 40	> 25	> 15	> 9	> 6	> 3
Vickers hardness HV		55 - 85	85 - 115	105 - 130	120 - 150	140 - 170	> 160
Electrical conductivity in % IACS		34	34	33	33	32	32
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	-
	parallel	0 x s	0 x s	0 x s	0 x s	0.5 x s	-
0.25 < s ≤ 0.50 mm	transverse	0 x s	0 x s	0 x s	0 x s	0 x s	-
	parallel	0 x s	0 x s	0 x s	0.5 x s	2 x s	-
*) Reference values							

Brass (Copper-Zinc) MB15



Processing Instructions	
Cold forming properties	good
Machinability	sufficient
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	USA	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.