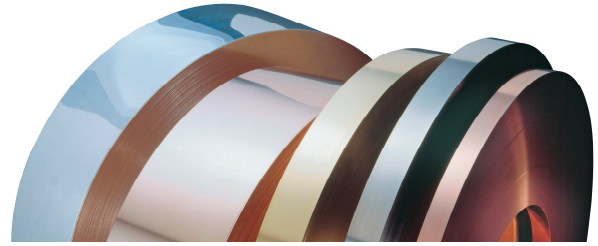


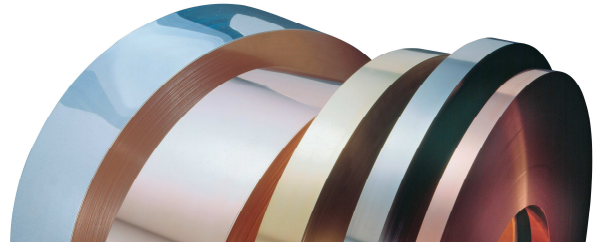
Brass (Copper-Zinc) MB36



| Material Designation | | | Nominal Composition (mass content in %) | | About The Alloy |
|--|--------|-----------------------------|--|---------|-----------------|
| DIN-EN Symbol | CuZn36 | | Cu | Balance | |
| DIN-EN | CW507L | | Sn | < 0.05 | |
| UNS | C27000 | | Zn | 36 | |
| JIS | C2700 | | 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) | <p>* Reference values at room temperature ** Between 20 and 300 °C</p> | | |
| Thermal expansion coefficient ** | 20.2 | 10 ⁻⁶ /K | | | |
| Density | 8.4 | g/cm ³ | | | |
| Modulus of elasticity | 110 | GPa = kN/mm ² | | | |
| <p>* Reference values at room temperature ** Between 20 and 300 °C</p> | | | | | |

| 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 | | | | | | | |

Brass (Copper-Zinc)
MB36



| 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.