

# CuZn10

Designation

EN / CuZn10

EN / CW501L

UNS / C22000

This brass alloy is well suitable for cold forming processes. Due to the zinc component, this alloy has higher strength values than copper. The conductivity however is reduced. The CuZn10 has a low tendency to stress corrosion.

## COMPOSITION OF MATERIAL

• Cu: 89 – 91 %      • Zn: ≤ 9 - 11 %

## PHYSICAL PROPERTIES

• Density	8,8 g/cm <sup>3</sup>
• Melting point	1043 °C
• Electrical conductivity	min. 25 m/Ω mm <sup>2</sup> (at 20 °C R240)
• Electrical resistivity	max. 0,04 Ω mm <sup>2</sup> /m (at 20 °C R240)
• Temperature coefficient of electrical resistance	1,8·10 <sup>-3</sup> /K (at 0 to 100 °C R240)
• Thermal conductivity	189 W/K m (at 20 °C)
• Thermal capacity	0,38 J/g K (at 20 °C)
• Coefficient of thermal expansion (linear)	18,4·10 <sup>-6</sup> /K (at 20 to 300 °C)
• Modulus of elasticity (tensile)	117 GPa (at 20 °C R240)

## MANUFACTURING PROGRAM

### THICKNESS

### WIDTH

Rolls, spools, rings, sheets

0,008 - 0,15 mm

10 - 310 mm

*not all combinations of thickness and width are available  
for different dimensions please contact our technical service*

## TEMPER ACCORDING TO DIN EN 1652

## TYPICAL VALUES (information only)

	Tensile strength R <sub>m</sub> in MPa	Yield strength R <sub>p0,2</sub> in MPa	Elongation in % L <sub>0</sub> = 100 mm
R240	240 – 290	≤ 140	≥ 36
R280	280 – 360	≥ 200	≥ 13
R350	≥ 350	≥ 290	≤ 4

*The values in the table are valid only for foils with thickness > 0,1 mm.*

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You will find further information at: <https://copperalliance.eu>