

# CuZn15

Designation	EN / CuZn15	EN / CW502L	UNS / C23000
-------------	-------------	-------------	--------------

This copper – zinc alloy is characterized by a very good cold formability. Due to the increased zinc content, higher strength values can be achieved, but this reduces the electrical conductivity and ductility.

## COMPOSITION OF MATERIAL

- Cu: ≥ 84 – 86 %
- Zn: 14 – 16 %

## PHYSICAL PROPERTIES

• Density	8,75 g/cm <sup>3</sup>
• Melting point	1027 °C
• Electrical conductivity	min. 21 m/Ω mm <sup>2</sup> (at 20 °C R260)
• Electrical resistivity	max. 0,04762 Ω mm <sup>2</sup> /m (at 20 °C R260)
• Temperature coefficient of electrical resistance	2,6·10 <sup>-3</sup> /K (at 0 to 100 °C R260)
• Thermal conductivity	159 W/K m (at 20 °C)
• Thermal capacity	0,38 J/g K (at 20 °C)
• Coefficient of thermal expansion (linear)	18,7·10 <sup>-6</sup> /K (at 20 to 300 °C)
• Modulus of elasticity (tensile)	122 GPa (at 20 °C R260)

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 Rm in MPa	Yield strength Rp0.2 in MPa	Elongation in % L <sub>0</sub> = 100 mm
R260	260 – 310	≤ 170	≥ 36
R300	300 – 370	≤ 150	≥ 16
R350	350 – 420	≤ 250	≥ 4
R410	410 – 490	≤ 360	≤ 2

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

For further information please visit our website: <https://www.schlenk.com>

Data in this publication is based on careful investigations and is intended for information only. All information shall not be binding, shall carry no warranty as to certain ingredients, as to the fitting for a special purpose, as to the merchantability, or as to the industrial property rights of third parties. Any and all users are obliged to carry out tests on their own authority as well as to check the suitability and the danger of the respective product for a particular application. SCHLENK assumes no liability in this regard; neither to the exactness nor to the completeness of the data. We apply our General Sales Conditions to be found on [www.schlenk.com](http://www.schlenk.com)

# TECHNICAL DATASHEET



Schlenk Metallfolien GmbH & Co. KG • Barnsdorfer Hauptstr. 5 • D-91154 Roth-Barnsdorf  
www.schlenk.com • foils@schlenk.de

---

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

---

Data in this publication is based on careful investigations and is intended for information only. All information shall not be binding, shall carry no warranty as to certain ingredients, as to the fitting for a special purpose, as to the merchantability, or as to the industrial property rights of third parties. Any and all users are obliged to carry out tests on their own authority as well as to check the suitability and the danger of the respective product for a particular application. SCHLENK assumes no liability in this regard; neither to the exactness nor to the completeness of the data. We apply our General Sales Conditions to be found on [www.schlenk.com](http://www.schlenk.com)