TECHNICAL DATASHEET

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CuZn30

Designation	EN / CuZn30	EN / CW505L	UNS / C26000

This brass alloy with 30 % zinc shows good values for mechanical strength and good workability.

COMPOSITION OF MATERIAL

- Cu: 69 - 71 %
- Zn: balance

PHYSICAL PROPERTIES

· Density	8,55 g/cm³
· Melting point	910 - 965 °C
· Electrical conductivity	16 m/Ω mm² (at 20 °C R270)
· Electrical resistivity	0,066 Ω mm²/m (at 20 °C R270)
· Temperature coefficient of electrical resistance	$1{,}5 \cdot 10^{-3}$/K (at 0 to 100 °C R270)
· Thermal conductivity	120 W/K m (at 20 °C)
· Thermal capacity	0,377 J/g K (at 20 °C)
· Coefficient of thermal expansion (linear)	$21 \cdot 10^{-6}$/K (at 20 to 270 °C)
· Modulus of elasticity (tensile)	110 GPa (at 20 °C R270)

MANUFACTURING PROGRAM	THICKNESS	WIDTH
Rolls, spools, sheets	0,01 - 0,2 mm	1 - 680 mm

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

TEMPER ACCORDING TO DIN EN 1652			TYPICAL VALUES (information only)
	Tensile strength Rm in MPa	Yield strength $Rp_{0,2}$ in MPa	Elongation in % L_0 = 100 mm
R270	≤ 350	≤ 300	> 10
R420	350 - 430	≥ 170	< 40
R410	410 - 490	≥ 300	< 25
R480	480 - 560	≥ 430	< 10
R550	≥ 550	≥ 500	< 3

The values in the table are valid only for foils with thickness > 0,2 mm.

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

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

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