

3.5 CuZn30 - C26000 - CW505L

Application Range

Basic material for electrical components, installation parts in the electrical industry. Zinc content proportionally reduces metal cost.

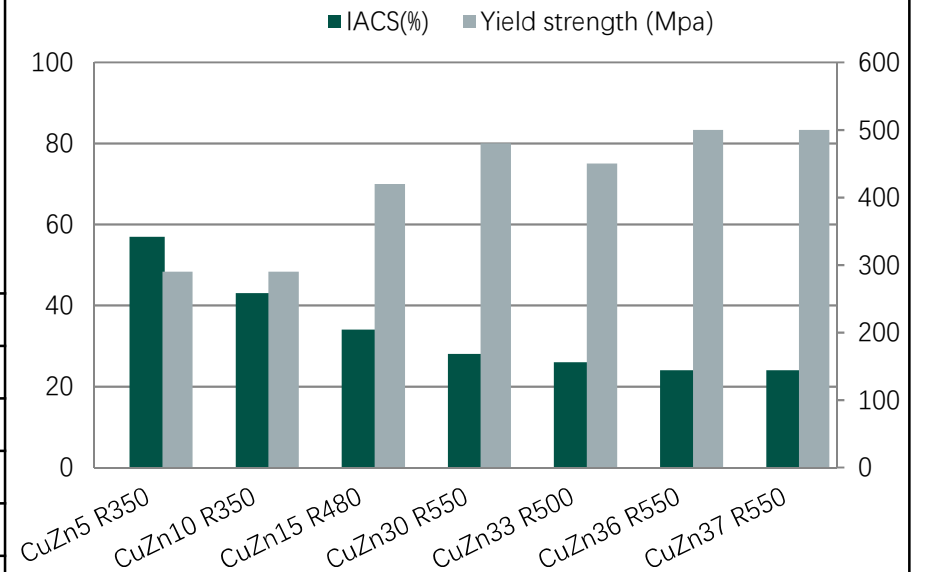
Physical Properties

Chemical Position (reference value) %

Density *	g/cm ³	8.5	Cu	69 - 71
Thermal conductivity *	W/(m·k)	126	Zn	Rest
Electr. conductivity ***	MS/m	14	Ni	max. 0.3
Electr. conductivity ***	IACS (%)	24	Sn	max. 0.1
Thermal expansion c. **	10 ⁻⁶ K	19.7	Fe	max. 0.05
Modulus of elasticity *	Gpa	115		

Tensile strength	Yield strength	Tensile strength	Yield strength	Elongation	Hardness	Electr. conductivity	Bendability	
		T.S. min. - max. MPa	Rp 0.2 min. MPa				A50 min. %	(reference value) HV
							GW	BW
							Strip thickness ≤0.5mm	Strip thickness ≤0.5mm
Cold rolled	R270	270 - 350	(max. 160)	40	55 - 105	14	0	0
Cold rolled	R350	350 - 430	(170)	21	95 - 145	14	0	0
Cold rolled	R410	410 - 490	(350)	9	120 - 160	14	0	1
Cold rolled	R480	480 - 570	(430)	4	150 - 190	14	0.5	2
Cold rolled	R550	550 - 640	(480)	2	170 - 210	14	1	3
Cold rolled	R630	min. 630	(560)	-	min. 190	14	-	-

Comparison of yield strength and electrical conductivity (IACS%) of selected brass alloys



*Reference values at room temperature

**Between 20 and 300 °C

*** Values for the lowest temper class

¹⁾ $r = x \cdot t$ (strips up to $t = 0.50$ mm)

²⁾ Sample width = 10 mm / bending at smaller bending widths on request (Evaluation accorc

³⁾ Valid only as thermal stress relieved qualities

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