

3.6 CuZn33 - C26800 - CW506L

Application Range

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

Physical Properties

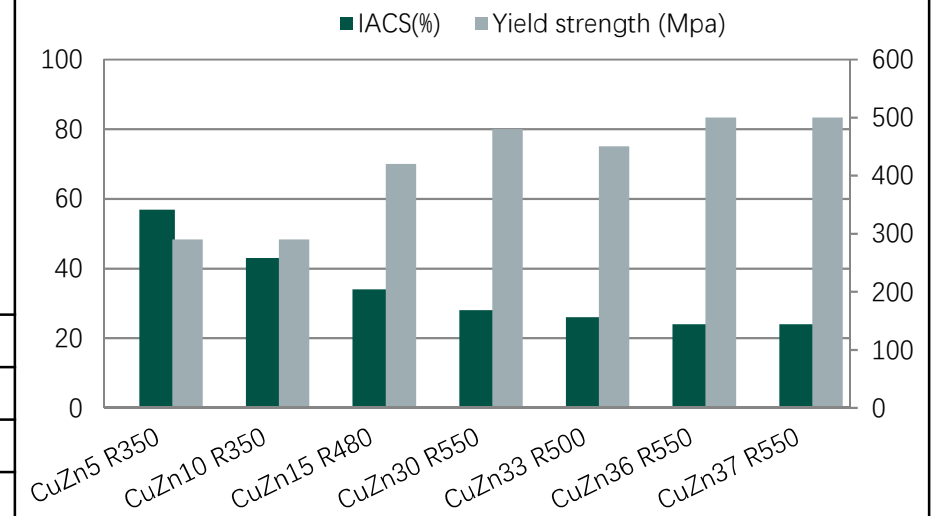
Chemical Position (reference value) %

Density *	g/cm ³	8.5
Thermal conductivity *	W/(m·k)	121
Electr. conductivity ***	MS/m	14
Electr. conductivity ***	IACS (%)	24
Thermal expansion c. **	10 ⁻⁶ K	19.9
Modulus of elasticity *	Gpa	112

Cu	66 - 68
Zn	Rest
Ni	max. 0.3
Sn	max. 0.1
Fe	max. 0.05

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
			() only information					
Cold rolled	R280	280 - 380	(max. 170)	40	55 - 95	14.5	0	0
Cold rolled	R350	350 - 430	(170)	23	95 - 125	14.5	0	0
Cold rolled	R420	420 - 500	(300)	6	125 - 155	14.5	0	0
Cold rolled	R500	min. 500	(450)	3	min. 155	14.5	0.5	0.5

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 accordi

³⁾ Valid only as thermal stress relieved qualities

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