3.8 CuZn37 - C27200 - CW508L

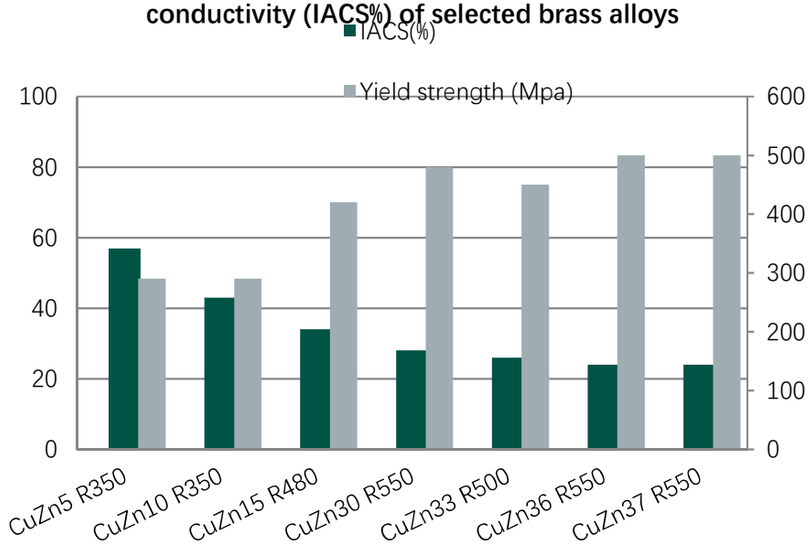
Application Range
Basic material for electrical components, installation parts in the electrical industry. Zinc content proportionally reduces metal cost.

Physical Properties		
Density *	g/cm³	8.45
Thermal conductivity *	W/(m·k)	121
Electr. conductivity ***	MS/m	14
Electr. conductivity ***	IACS (%)	24
Thermal expansion c. **	10^{-6} K	20.2
Modulus of elasticity *	Gpa	110

Chemical Position （reference value） %	
Cu	62 - 64
Zn	Rest
Ni	max. 0.3
Sn	max. 0.1
Fe	max. 0.10

Tensile strength	**Yield strength**	**Tensile strength** T.S. min. - max. MPa	**Yield strength** $Rp_{0.2}$ min. MPa () only information	**Elongation** A50 min. %	**Hardness** (reference value) HV	**Electr. conductivity** MS/m	**Bendability** R/t [1) 2)] 90° GW Strip thickness ⩽0.5mm	**Bendability** R/t [1) 2)] 90° BW Strip thickness ⩽0.5mm
Cold rolled	R300	300 - 370	(max. 180)	38	55 - 105	14	0	0
Cold rolled	R350	350 - 430	(170)	19	95 - 125	14	0	0
Cold rolled	R410	410 - 490	(300)	8	120 - 155	14	0	0
Cold rolled	R480	480 - 560	(430)	3	150 - 180	14	0.5	2
Cold rolled	R550	min. 550	(500)	-	min. 170	14	1	3
Cold rolled	R630	min. 630	(600)	-	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 · t (strips up to t = 0.50 mm)

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

3) Valid only as thermal stress relieved qualities