



Estd. 1935

CuZn 37

ALLOY NAME

AMW-27	IS/ISO	DIN CEN/TS 13388	ASTM	JIS	KMW
CuZn37	CuZn37	CW508L	C27200	C2720	CuZn37

Chemical Composition	(% By Weight)	Main Applications	
Cu	61.50 - 64.50 %	Industrial & Automobiles	Connectors, Deep Drawn Parts, Stamped Parts, Radiator Tanks and Radiator Cores, Automobile Light Reflectors, Radiator Tube.
Pb	≤ 0.05 %	Electrical Consumers	Components for the electrical industries
Fe	Remainder %		Style Jewellery, Snap Buttons, Zippers, Eyelet Fasteners, Flash Lights.
Zn			
Total Impurity	< 0.30 %		

Physical Properties Typical values in annealed temper at 20 Â°C

Density	8.44	g/cm ³
Thermal expansion coefficient -191 .. 160 / 300°C	17.0/ 20.2	10-6/K / 10-6/K
Specific heat capacity	0.377	J/(g·K)
Thermal conductivity	121	W/(m·K)
Electrical conductivity (1 MS/m = 1 m/(Ω mm ²))	≤ 15	MS/m
Electrical conductivity (IACS)	27	%
Thermal coefficient of electrical resistance (0 .. 200 C)	1.7	10-3/K
Modulus of elasticity (1 GPa = 1 kN/mm ²) cold formed	99...110 /110	GPa /GPa

Mechanical Properties (EN 1652)

Temper	Tensile Strength Rm MPa (N/mm ²)	Yield Strength Rp0.2 MPa (N/mm ²)	Elongation Minimum A50mm %	Hardness HV
O (Soft)	280 Min	<180	40 Min	80 Max
HA (quarter Hard)	340 Min	≤ 170	30 Min	75 Min
HB (Half Hard)	385 Min	≤ 300	15 Min	110 Min
HD (Hard)	460 Min	≤ 400	5 Min	135 Min
HE (extra Hard)	525 Min	≤ 450		165 Min
HS (Spring Hard)	670 Min	≤ 600		185 Min

Fabrication Properties

Cold formability
Hot formability
Soldering
Brazing
Oxyacetylene welding
Gas shielded arc welding

Excellent
Not Recommended
Excellent
Excellent
Fair
Fair



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