



Estd. 1935

CuZn 35

ALLOY NAME

AMW-26	IS/ISO	DIN CEN/TS 13388	ASTM	JIS	KMW
CuZn35	CuZn35	CW507L	C26800	C2680	CuZn35

Chemical Composition	(% By Weight)	Main Applications	
Cu	64.0 - 68.5%	Electrical	Socket Shells, Flashlight Shells, Lamp Fixture, Reflectors, Screw Shells.
Pb	≤ 0.05 %	Fasteners	Pins, Rivets, Grommets, Eyelets, Screws.
Fe	≤ 0.05 %	Industrial	Springs, chain, Bead Chain
Zn	Remainder %	Automotive	Radiator Cores, Tanks
Total Impurity	< 0.15 %		

Physical Properties Typical values in annealed temper at 20°C

Density	8.45	g/cm ³
Thermal expansion coefficient -191 .. 16 / 0 .. 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))	≥ 14	MS/m
Electrical conductivity (IACS)	24	%
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....115 / 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	45 Min	85 Max
HA (Quarter Hard)	340 Min	≥ 180	35 Min	75 Min
HB (Half Hard)	385 Min	≥ 300	20 Min	110 Min
HD (Hard)	460 Min	≥ 350	5 Min	135 Min
HE (Extra Hard)	525 Min	≥ 450		165 Min
HS (Spring Hard)	670 Min	≥ 600		185 Min

Fabrication Properties

Cold Forming Properties Max. 90% between annealings
Hot Forming Properties at 750 .. 850°C
Machinability (Rating 30)
Electroplating Properties
Hot Tinning Properties
Soft Soldering, Brazing

Excellent
Good
Fair
Excellent
Excellent
Excellent



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