



Alloy Name

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

This alloy is as per the RoHS specification.

65/35 Characteristics

CuZn37 is the major brass alloy for the cold forming process. Even though brasses with lower Zinc content have better cold forming properties, CuZn37 is the most used alloy. Reasons for this are on the one hand economical due to lower price of Zinc compared to Copper, on the other hand the forming properties of this alloy meet the demand of many applications



Chemical Composition

Chemical Composition	Weight percentage
Cu	64.0 - 68.5 %
Pb	≤ 0.05 %
Fe	≤ 0.05 %
Zn	Remainder %
Total Impurity	<0.15 %

Main Applications

Electrical :	Socket Shells,Flashlight Shells, Lamp Fixture,Reflectors,Screw Shells.
Fasteners :	Pins, Rivets,Grommets,Eyelets,Screws.
Industrial :	Springs,chain,Bead Chain.
Automotive :	Radiator Cores, Tanks.

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	Yield Strength	Elongation Minimum A50mm	Hardness HV
	Rm MPa(N/mm ²)	Rp0.2 MPa(N/mm ²)	%	

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	20Min	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