



Thickness Range : 2.5mm to 0.05mm Width Range : 8mm to 400mm Surface Roughness: 0.15 to 0.25 Ra Scale Grain Size : Fine i.e. No Orange Peel effect on deep drawing Coil Weight : 8Kgs/mm width .

## 63/37 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

## Alloy Name

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

AMWL offers CuZn37 rolled products with high purity and minimum impurities like Iron and Lead to take care of Lead Leaching Test. The Rolled products are in shape Foils, Strips, Sheets and circles/discs to meet our customers needs for industrial manufacturing. AMWL can provide Coil weight of 8Kg/mm width.



## Chemical Composition

## Weight percentage

Cu	61.50 - 64.50 %
Pb	
Fe	≤ 0.05 %
Zn	Remainder %
Total Impurity	< 0.30 %

## Main Applications

<b>Industrial &amp; Automobiles :</b>	Connectors, Deep Drawn Parts, Stamped Parts, Radiator Tanks and Radiator Cores, Automobile Light reflectors, radiator tube.
<b>Electrical :</b>	Components for the electrical industries
<b>Consumers :</b>	Style Jewellery, Snap Buttons, Zippers, eyelet fasteners, Flash Lights,

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

Density	8.44	g/cm <sup>3</sup>
Thermal expansion coefficient -191 .. 16 0 .. 300°C	17.0	10 <sup>-6</sup> /K
	20.2	10 <sup>-6</sup> /K
Specific heat capacity	0.377	J/(g·K)
Thermal conductivity	121	W/(m·K)
Electrical conductivity (1 MS/m = 1 m/(Ω mm <sup>2</sup> ))	15	MS/m
Electrical conductivity (IACS)	27	%
Thermal coefficient of electrical resistance (0 .. 200 C)	1.7	10 <sup>-3</sup> /K
Modulus of elasticity ( 1 GPa = 1 kN/mm <sup>2</sup> ) cold formed	99...110	GPa
	110	GPa

## Mechanical Properties (EN 1652)

Temper	Tensile Strength	Yield Strength	Elongation Minimum	Hardness HV
	Rm	Rp0.2	A50mm	
	MPa(N/mm <sup>2</sup> )	MPa(N/mm <sup>2</sup> )	%	

O (Soft)	280 Min	< 180	40 Min	80 Max
HA (quarter Hard)	340 Min	¡Ÿ 170	30 Min	75 Min
HB (Half Hard)	385 Min	¡Ÿ 300	15 Min	110 Min
HD (Hard)	460 Min	¡Ÿ 400	5 Min	135 Min
HE (extra Hard)	525 Min	¡Ÿ 450		165 Min
HS (Spring Hard)	670 Min	¡Ÿ 600		185 Min