



AMWL offers a wide range of brass rolled products in the form of Foils, Strips, Sheets and circles/discs to meet our customer's needs for industrial manufacturing. .

60/40 Characteristics

CuZn40 is an economical brass alloy with high Zinc content, good forming properties and medium strength.



Alloy Name

UNS	C28000
IS/ISO	CuZn40
DIN CEN/TS 13388	CW617N

This alloy is as per RoHS specification

Chemical Composition

Chemical Composition	Weight percentage
Cu	58.5 - 62.0 %
Pb	
Fe	≤ 0.1 %
Zn	Remainder %
Total Impurity	< 0.75 %

Main Applications

Industrial :	Locks, Metal Fittings, Keys.
Architecture :	Decoration, Hardware, Door Frames, Large Architectural Trim, Large sheet.

Physical Properties Typical values in annealed temper at 20 °C

Density	8.41	g/cm ³
Thermal expansion coefficient -191 .. 16	20.3	10 ⁻⁶ /K
0 .. 300°C	21.0	10 ⁻⁶ /K
Specific heat capacity	0.375	J/(g·K)
Thermal conductivity	117	W/(m·K)
Electrical conductivity (1 MS/m = 1 m/(Ω mm ²))	≥ 15	MS/m
Electrical conductivity (IACS)	26	%
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	GPa
	102	GPa

Mechanical Properties (EN 1652)

Temper	Tensile Strength	Yield Strength	Elongation Minimum	Hardness HV
	Rm MPa(N/mm ²)	Rp0.2 MPa(N/mm ²)	A50mm %	
O (Soft)	275 Min	-----	35 Min	85 Max
HB (Half Hard)	420 Min	-----	15 Min	100 Min
HD (Half Hard)	490 Min	-----	5 Min	125 Min
HE (Extra Hard)	525 Min	-----		165 Min

