

Commercial Name : Yellow Brass

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.

Reference Standard: JIS: C2720

ASTM: C27200

GMSL: CuZn37

IS-410

Chemical Composition: (% By Weight)		
A	Copper	61.5-64.5 %
B	Lead	0.30 % Max.
C	Iron	0.075 % Max
D	Zinc	Rem.

Physical Properties:		Units
A	Density	8.40 g/cm ³
B	Thermal Conductivity	116 W/m
C	Electrical Resistivity	64.0 nΩ
D	Electrical Conductivity (annealed)	27%
E	Electrical Conductivity (rolled)	25%
F	Modulus of Elasticity	105 Gpa
G	Coeff. of Thermal Expansion	20.3 μm/m at 20° C to 300° C

Applications:

- Keys
- Lugs
- Battery Terminals
- Wiring Harness Terminals

Surface Characteristics:

Surface Appearance : Both surfaces smooth, shiny without obvious scores and / or scratches that compromise the aesthetic quality of the finished product. Edge Finish is well trimmed, with no burrs, flakes or lateral deformation on the wap.

Mechanical Properties:

Alloy No.	Temper Condition	Thickness		Tensile Strength (N/mm ²) kgf/mm ²		Elongation on Gauge Length of 50mm Percent Min	Vickers Hardness (HV)				Bend Test			
		Upto	Upto & Including	Upto 400mm wide	Over 400mm wide		Upto Width 450 mm		Over 450 mm Width		Transverse Bend		Longitudinal Bend	
							Min	Max	Min	Max	Angle Deg	Radius	Angle Deg	Radius
CuZn37	O		10	275 (28.0)	275 (28.0)	40		80		80	180	Close	180	Close
	HA		10	335 (34.0)	320 (32.5)	30	75		75	180	Close	180	Close	
	HB	3.5	10	380 (38.5)	345 (35.0)	15	110		100	180	Close t	180	Close t	
	HD		10	450 (46.0)	405 (41.5)	5	135		125	90		90	t	
	HE		10	515 (52.5)			165					90	2t	
	HS		5	660 (67.5)			185					90	2t	

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Gupta Metal Sheets Ltd.

P.B No 1559 , Delhi Road , Rewari-123401 , Haryana (India)

+91-01274-253108

info@bmggroupindia.com

www.bmggroupindia.com



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