Cz108

LEAD FREE BRASS

DESCRIPTION

CZ108 yellow brass has a copper content of not less than 62%, 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

MP.	Elements			Min (%)		.5	1	Max (%)	
	Cu phi	NS MET	CALIAN	62.00		S SMEAN	HANS	65.00	
~	ETHE Pb5ME	BUH MAN		TALS	NS ME I	ALL	632	0.30	E ME
2	Total Others	C.	NET ANS	ANS ME	BUHAN	×.	1 mil	0.60 5	CAUHAND
	RAN Zn S	METALD	HANS	BULL	6	Remainder	ANS ME	BRUHPE	<i></i>

MECHANICAL PROPERTIES (AS PER TEMPER 1/2H)

R.Y	Range (Inch)	From	To	UTS Min (Mpa)	UTS Max (Mpa)	PS Min (Mpa)	Elongation Min (%)	Hardness Min	Hardness Max	A.J.H
	Round (Dia)	1.5	75	460	620	MEIPH - 11	- 43°	-	<u> </u>	
	Hex (A/F)	3.00	70	460	620	10 - 6 hrs	-	~ -	all - all	S
S	Square (A/F)	3.00	_60	460	620	-		(1 ¹¹⁾ - 1 ¹¹	St Bby	
	Rectangle (Thickness)	\$ 3.00	50	460	620	5 - 1	Aller - Mar	- bby	-	

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PHYSICAL PROPERTIES

Melting Point - Liquidus°F	1680
Density lb/cu in. at 68°F	0.305
Specific Gravity	8.44
Electrical Conductivity % IACS at 68°F	27.6
Thermal Conductivity Btu/ sq ft/ ft hr/ °F at 68°F	67
Coefficient of Thermal Expansion 68-57210 ⁻⁶	11.4
per °F (68 – 572°F)	AFT AL
Specific Heat Capacity Btu/ lb /°F at 68°F	0.09
Modulus of Elasticity in Tension ksi	15000
Modulus of Rigidity ksi	5600
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FABRICATION PROPERTIES

Technique	Suitability
Soldering	Excellent
Brazing	Excellent
Oxyacetylene Welding	Good
Gas Shielded Arc Welding	Fair
Coated Metal Arc Welding	Not Recommended
Spot Weld	Good
Seam Weld	Not Recommended
Butt Weld	Good
Capacity for Being Cold Worked	Excellent
Capacity for Being Hot Formed	Fair
Machinability Rating	35
64 ³ 63 ³	

TYPICAL USES

- > Fasteners
- > Industrial

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