CZ107

LEAD FREE BRASS

DESCRIPTION

Cz107 these brasses have relatively good corrosion resistance, are moderately high in strength, and in some forms, have very good ductility. They are available in many forms including rod, bar, sheet, plate and more.

CHEMICAL COMPOSITION

	Elements		BUTT	Min (%)	MS ME	a full Hall	Max (%)	
5 ME	Cu	Brown	5	64.00	INS MIL	6.6.) 191		67.0	S MEME
- althand	Pb		C ME ME	HANS TO -	BBJU	. 5	META	0.10	BUTT
42	Fe	15 MET	- AJHAMS		S. S.	C MILLAN	HAME	0.10	. S
ETALS	Total Others	JHAN .	~	AN-	SMELT	Althouse	63.	0.50	CMETAL
ANSPACE	م ^{الالا} Zn		S. T. M.S.	MS ME	Althou	Remainder		S.S.MET	Althing

MECHANICAL PROPERTIES (AS PER TEMPER 1/2H)

Range (mm)	From	То	UTS Min (Mpa)	UTS Max (Mpa)	PS Min	Elongation Min (%)	Hardness Min	Hardness Max
Round (Dia)	1.5 🔬	75 🔊	460	620	1 ¹² - 6 ¹¹	i - Jihan	- 49	-
Hex (A/F)	3.00	70	460	620 🔊	- althout	-	-	3 - M
Square (A/F)	3.00	60	🔊 460	620	-		p - chil	- Halle
Rectangle (Thickness)	3.00	50 🔬	460	620	-	- SMEL	JHAR	<u> 7</u> 2

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PHYSICAL PROPERTIES

Melting Point - Liquidus°F	1710
Melting Point - Solidus°F	1660
Density Ib/cu in. at 68°F	0.306
Specific Gravity	8.47
Electrical Conductivity % IACS at 68°F	27
Thermal Conductivity Btu/ sq ft/ ft hr/ °F at 68°F	67
Coefficient of Thermal Expansion 68-57210 ⁻⁶ per °F (68 – 572°F)	11.3
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			
Poor	Poor			
Machinability Rating	30			

TYPICAL USES

- > Architecture
- > Automotive
- > Builders Hardware
- > Electrical
- > Fasteners
- > Industrial
- > Marine
- > Plumbing

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