CZ129

FORGING BRASS

DESCRIPTION

Brass is an alloy mainly consisting of copper and zinc. Brass alloys can be easily shaped and are available in various colors. Brass has high thermal conductivity. CZ129 forging brass alloys have good forgeability. They are available in the form of rod. The following datasheet gives details about CZ129 brass alloys.

CHEMICAL COMPOSITION

Elements	Min (%)	Max (%)
Cu	58.50	61.00
Pb	0.80	1.50
Fe	_	0.20
Total Others Excl. Fe	-	0.50
Zn	Remai	nder

MECHANICAL PROPERTIES ACCORDING TO BS2874 (AS PER TEMPER M)

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Range (Inch)	From	То	UTS Min (N/mm²)	PS Min	Elongation Min (%)	Hardness Min	Hardness Max
	1.5	18.00	380.00	-	25.00	-	-
Round (Dia)	18.00	40.00	40.00 380.00 - 25.00 -	-			
	40.00	75.00	350.00	-	28.00	-	-
	3.00	18.00	380.00	-	25.00	-	-
Hex (A/F)	18.00	40.00	380.00	-	25.00	-	-
	40.00	70.00	350.00	-	28.00	-	-
	3.00	18.00	380.00	-	25.00	-	-
Square (A/F)	18.00	40.00	380.00	-	25.00	-	-
	40.00	00 60.00 350.00 - 28.00 -	-				
	3.00	18.00	380.00	-	25.00	-	-
Rectangle (Thickness)	18.00	40.00	380.00	-	- 25.00 -	-	
2	40.00	50.00	350.00	-	28.00	-	-
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PHYSICAL PROPERTIES

Melting Point - Liquidus°F	1640
Melting Point - Solidus°F	1620
Densitylb/cu in. at 68°F	0.305
Specific Gravity	8.44
Electrical Conductivity% IACS at 68°F	27
Thermal ConductivityBtu/ sq ft/ ft hr/ °F at 68°F	69
Coefficient of Thermal Expansion 68-57210- ⁶ per °F (68 – 572°F)	11.5
Specific Heat CapacityBtu/ lb /°F at 68°F	0.09
Modulus of Elasticity in Tensionksi	15000
Modulus of Rigidityksi	5600
	Melting Point - Solidus°F Densitylb/cu in. at 68°F Specific Gravity Electrical Conductivity% IACS at 68°F Thermal ConductivityBtu/ sq ft/ ft hr/ °F at 68°F Coefficient of Thermal Expansion 68-57210- ⁶ per °F (68 – 572°F) Specific Heat CapacityBtu/ lb /°F at 68°F Modulus of Elasticity in Tensionksi

FABRICATION PROPERTIES Technique Suitability Soldering Excellent Brazing Good Oxyacetylene Welding Not Recommended Gas Shielded Arc Welding Not Recommended Coated Metal Arc Welding Not Recommended Spot Weld Not Recommended Seam Weld Not Recommended Butt Weld Fair Capacity for Being Cold Worked Poor Capacity for Being Hot Formed Excellent **Forgeability Rating** 100 Machinability Rating 80

TYPICAL USES

- > Builders Hardware
- > Building
- > Consumer
- > Electrical
- > Industrial

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