

DESCRIPTION

CZ122 are the reference materials for hot working. The mean Lead content provides good machinability of the drop-forged part. Because of its Composition the alloy is also suited for the production of drawn and complex profile.

CHEMICAL COMPOSITION

Elements	Min (%)	Max (%)
Cu	56.50	58.50
Pb	1.50	2.50
Fe	-	0.30
Total Others	-	0.70
Zn	Remainder	

MECHANICAL PROPERTIES ACCORDING TO BS2874 (AS PER TEMPER M)

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



PHYSICAL PROPERTIES

PHYSICAL PROPERTIES	METRIC	ENGLISH
Density	8.40 g/CC	0.303 lb/in ³
CTE. linear	26.0µm/m-°C	14.4 µin/in-°F
Specific Heat Capacity	0.380 J/g-°C	0.0908 BTU/lb-°F
Thermal Conductivity	113 W/m-K	784 BTU-in/hr-ft ² -°F
Melting Point	880-900 °C	1620 – 1650 °F
Solidus	880 °C	1620 °F
Liquidus	900 °C	1650°F

FABRICATION PROPERTIES

Forming	Suitability
Machinability (CuZn39Pb3 = 100 %)	95.00%
Capacity for Being Cold Worked	Poor
Capacity for Being Hot Worked	Excellent

TYPICAL USES

- > Architecture
- > Builders Hardware

