

# Cz116

# MANGANESE BRONZE

## DESCRIPTION

High Tensile Brass are alloys of Copper and Zinc. CZ116 is a duplex or alpha/beta alloy. Brass alloy CZ116 is a versatile high strength, hot workable, machinable engineering alloy sometimes referred to as a Manganese Bronze or High Tensile Brass.

## CHEMICAL COMPOSITION

Elements	Min (%)	Max (%)
Cu	64.00	68.00
Fe	0.25	1.20
Al	4.00	5.00
Mn	0.30	2.00
Total Others	-	0.50
Zn	Remainder	

## MECHANICAL PROPERTIES ACCORDING TO BS2874 CZ116 (AS PER TEMPER M)

Range (mm)	From	To	UTS Min (N/mm <sup>2</sup> )	PS Min (N/mm <sup>2</sup> )	Elo Min (%)	Hardness Min	Hardness Max
Round (Dia)	1.5	18	650	370	10	-	-
	18	40	620	340	12	-	-
	40	75	580	300	15	-	-
Hex (A/F)	3	18	650	370	10	-	-
	18	40	620	340	12	-	-
	40	70	580	300	15	-	-
Square (A/F)	3	18	650	370	10	-	-
	18	40	620	340	12	-	-
	40	50	580	300	15	-	-
Rectangle (Thickness)	3	18	650	370	10	-	-
	18	40	620	340	12	-	-
	40	50	580	300	15	-	-



# Cz116

# MANGANESE BRONZE

## PHYSICAL PROPERTIES

No physical properties for this alloy.

## FABRICATION PROPERTIES

No Fabrication properties for this alloy

## TYPICAL USES

- › Gas valves and fittings
- › Fasteners
- › Pump trim
- › Gears
- › Locks

