CW722R

MANGANESE BRONZE

DESCRIPTION

CW722R is a duplex high tensile brass with a restricted aluminium content to facilitate soldering and brazing. Sometimes referred to as a manganese bronze, CW722R has additions of iron, tin and manganese that benefit the physical and mechanical attributes of the alloy.

CHEMICAL COMPOSITION

Elements			Min (%)			Max (%)			
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Cu	LS SMELL	- AJHAND	56.50		5	ANE AN HANG	58.50	
1. Th	Pb	BUHAN	40	0.80	NF ME	in all	Witz Hym	1.60	15 ME
- HALF PAR	AI	6		MS ME	BAJHAN			ى 0.10 🖉	in all the second
6 Proj	Fe	METAL	UANSM	0.20	C.		ETHIS WE	1.20	ζ.
S.S.	Mn	HANS	68.3.	0.80	METAL	.uphs	er. Bypp	1.80	LE THIS
15 MET	<b>Ni</b>	62.		c ME Pr-	HAME	BRD	ى. ئ	0.30	UMS
BP HIPS	Sn	1 ALS	NS MET	0.20	<u>3</u>	di la	5 CMEPA	1.00	BUS
Č.	Total other	S NE PA	HP.	-	1 Miles	NE ME	Althan	0.30	2
METAL	une Zn 🗟	A. M.	C.	SETALS S	SMIL .	Remai	nder	(ALS	NE MET

## MECHANICAL PROPERTIES CW722R (AS PER TEMPER R440)

Range (mm)	From	То	UTS Min (N/mm²)	PS Min (N/mm²)	Elo Min (%)	Hardness Min	Hardness Max
Round (Dia)	40	75	440	200	18		No. 1015 Million
Hex (a/F)	35	60	440	200	18	METAL - HANS	Pitrit-
Square (A/F)	35	60	440	200	18	Allo - Phil	
Rectangle (Thickness)	40	50	440	200	18		CHA ^{ETAL}

### **RAJHANS METALS PRIVATE LIMITED**

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# **CW722R**

# MANGANESE BRONZE

## PHYSICAL PROPERTIES

940°C
g/cm ³
380 J/Kg°K
88 W/m°K
20 x 10-6
18% IACS
0.082 ohm mm ² /m

### **FABRICATION PROPERTIES**

Hot Working Temperature Range	700-750°C
Hot Formability	Very Good
Cold Formability	Poor
Machinability rating (free cutting brass = 100)	75%
Annealing Temp. Range	425-600°C
Stress Relieving Temp. Range	225-350°C
Soldering	Very Good
Brazing	Very Good
Oxy-acetylene welding	Not Recommended
Gas-shielded arc welding	Not Recommended
Resistance welding: Spot and Seam	Not Recommended
Butt	Fair

#### TYPICAL USES

- Sas valves and fittings
- > Fasteners
- > Pump trim
- > Gears
- > Locks

- Heavy-duty electrical connectors
- > Transmission components
- Marine hardware
- > Safety tools and decorative metalwork

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