CW713R

MANGANESE BRONZE

DESCRIPTION

CW713R is a special brass with very high wear resistance due to silicides embedded in the structure. This alloy is used for slide bearings and valve guides as well as for construction components in mechanical engineering. This alloy is also highly suitable for hot stamped parts requiring higher mechanical strength and higher wear resistance

Elements	Min (%)	Max (%)
Cu	57.00	59.00
Pb Pb phil	0.20	0.80
a si	0.30	1.30
e ^{ph} Mn	1.50	3.00
Sn Hills	the state	0.40
ss ^{MEL} sy ^{ME} Fe	the children that part	1.00
Ni Ni	LEWE CASHING - PAR	1.00
Al N	1.30	2.30
Total Others	at the assessment and the	0.30
Zn S	Rema	inder

CHEMICAL COMPOSITION

MECHANICAL PROPERTIES CW713R (AS PER TEMPER R540)

Range (mm)	From	То	UTS Min (N/mm ²)	PS Min (N/mm²)	Elo Min (%)	Hardness Min (HB)	Hardness Max (HB)
Round (Dia)	5	75	540	280	15		AL UNIS MIL
Hex (a/F)	5	60	540	280	15	MEINT - HANS	6897-
Square (A/F)	15 ME 5	60	540	280	15	1915 - 980°	<u>_</u> S

RAJHANS METALS PRIVATE LIMITED

CW713R

MANGANESE BRONZE

PHYSICAL PROPERTIES

Electrical conductivity	7.8 %IACS
Thermal conductivity	63 W/(m•K)
Thermal expansion coefficient (0–300 °C)	20.6 10-6/K
Density	8.12 g/cm ³
Modulus of elasticity	93 Gpa
	A

FABRICATION PROPERTIES

Suitability			
50%			
Poor			
excellent			
good			
good			
fair			
Poor S			
Poor			
875 – 910 °C			
600–700 °C			
500–650 °C (1–3 hr)			
350–450 °C (1-3 hr)			

TYPICAL USES

- > Bushings
- > Cams
- > Shafts
- > Wear Plates

- > Gears
- > Chain Guides
- Food ConveyorConnecting Rods
- Routing METRY ROUTINE. RAIN

RAJHANS METALS PRIVATE LIMITED