CW708R

SILICON RED BRASS

DESCRIPTION

High copper alloy. It has excellent mechanical properties and resistance to wear even at high temperatures. However, the reduced workability due to chip removal allows it to be used for the production of bearings, busings and mechanical parts subject to high loads.

CHEMICAL COMPOSITION

Elements	Min (%)	Max (%)
Cu	66.00	70.00
Pb	-	0.80
Fe	-	0.40
Ni	-	0.50
Si	0.70	1.30
Total Others	-	0.50
Zn	Remainder	

MECHANICAL PROPERTIES (AS PER TEMPER HB)

Range (mm)	From	To	UTS Min (Mpa)	PS Min (Mpa)	Elo Min (%)	Hardness Min	Hardness Max
Round (Dia)	0.5	40.00	460	240	18	-	-
Round (Dia)	0.5	40.00	460	240	18	-	-
Square (A/F)	0.5	40.00	460	240	18	-	-
Rectangle (Thickness)	0.5	40.00	460	240	18	-	-

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PHYSICAL PROPERTIES

Melting Point - Liquidus°C	880-915
Density Kg/cm2. at 68°F	8.40
Specific Gravity	8.5
Electrical Conductivity% IACS at 68°F	15
Thermal Conductivity Btu/ sq ft/ ft hr/ °F at 68°F	71
Coefficient of Thermal Expansion 68-57210-6 per °F (68 - 572°F)	19.4
Specific Heat Capacity J/ (Kg K)	377
Modulus of Elasticity in Gpa	108

FABRICATION PROPERTIES

Machinability	40%
Capacity of being cold worked	Good
Capacity of being hot worked	Fair
Resistance welding	Good
Arc welding good	Good
Gas welding	Good

TYPICAL USES

- Mechanical parts
- Bearing
- Busing

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