### **DESCRIPTION**

CW716 is a special brass with medium strength, high resistance to atmospheric corrosion as well as good sliding properties due to the alloying constituent's manganese and aluminium. CW716R is used as standard bearing alloy for medium load applications in machine construction.

### **CHEMICAL COMPOSITION**

Elements	Min (%)	Max (%)
Cu No Shirt	59.00	61.50
Pb. Pb.	THE SHIFT OF	1.00
NSn	actines and the state of the st	0.30
Fe S	Hall III BUTTO -	0.10
Al Al	0.30	1.30
Mn Mn	0.60	1.80
SI NE	NE NE CANADA	0.50
Ni Ni	- INC 185 185 185 185 185 185 185 185 185 185	0.60
Total Others	E HE PALE - HE ME PALITHE	0.30
Zn	Rema	inder (1)

# **MECHANICAL PROPERTIES CW716R (AS PER TEMPER R440)**

Range (mm)	From	То	UTS Min (Mpa)	PS Min (Mpa)	Elo Min (%)	Hardness Min	Hardness Max
Round (Dia)	8	75	440	200	15		1016
Hex (a/F)	8	60	440	200	15	MEIN - HANS	Phyl-
Square (A/F)	8	60	440	200	15	- 6kg	. 5
Rectangle (Thickness)	8	50	440	200	15	.9	WE THE

## **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 <sup>3</sup>
Modulus of elasticity	93 Gpa

## **FABRICATION PROPERTIES**

Technique	Suitability		
Machinability (CuZn39Pb3 = 100 %)	40%		
Capacity for being cold worked	Poor		
Capacity for being hot worked	good		
Resistance welding (butt weld)	good		
Inert gas shielded arc welding	fair		
Gas welding	Poor		
Hard soldering	fair		
Soft soldering	Poor		
Melting range	860-910 °C		
Hot working	600-700 °C		
Soft annealing	500-650 °C (1-3 hr)		
Thermal stress relieving	300-430 °C (1-3 hr)		

### **TYPICAL USES**

- > Bushings
- > Shafts