## **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**

The Children of the Control of the C	Elements			M	in (%)					Max (%)	JE TO THE TO	62711
40	Cu		- CHIMING	di.	59.00		9		HIII.	61.50	32.	
.chis	Pb				7000					1.00		
JANE III	Sn				and a second	chillips.	100			0.30	S MEI	- B.HIHAR
b programme	Fe				-					0.10		
.35	Al	HIME			0.30	all him	THE M	617110		1.30		
S. HEIV	Mn				0.60					1.80		
CP Tipp.	SI		TE HE !	T. HILL	- 63		- 105		Zho.	0.50		680,
	Ni				-					0.60		
	Total Others				- ,,,,,,		Hip.	100		0.30		TE HELL
Nigo Albay	Zn						Remain	der				

# MECHANICAL PROPERTIES ACCORDING TO EN12163 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		- July 1
Hex (a/F)	. 8	60	440	200	15	affile - affile	6 page
Square (A/F)	8	60	440	200	15	11/10 - 11/2	
Rectangle (Thickness)	8	50	440	200	15	8	i dipi

### 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
5	Capacity for being hot worked	good
	Resistance welding (butt weld)	good
	Inert gas shielded arc welding	fair
	Gas welding	Poor
	Hard soldering	fair
9	Soft soldering	Poor
	Melting range	860-910 °C
	Hot working	600–700 °C
333	Soft annealing	500-650 °C (1-3 hr)
	Thermal stress relieving	300–430 °C (1-3 hr)

### **TYPICAL USES**

- > Bushings
- > Shafts