# **CW718R**

## MANGANESE BRONZE

### DESCRIPTION

CW718 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. CW718R is used as standard bearing alloy for medium load applications in machine construction.

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### **CHEMICAL COMPOSITION**

	Elements	Min (%)	5°	Max (%)	
40	CU	57.00	15 JETH	59.00	
	Pb	0.20		0.80	
UNS THE	Al	0.30	No.	1.30	
	Fe	and the state -		0.50	
	Mn	0.80	and and a state	1.80	
	Ni	als all - and		0.50	
P.S.D.	Sn	Start Start - Start	and the second	0.50	
	Si	- 145		0.50	
- SELMAN	Total others	a setting - setting	ph.Stille	0.30	
	Zn		Remainder		

### MECHANICAL PROPERTIES ACCORDING TO EN12165 CW718 (AS PER TEMPER H130)

R	ange (mm)	From	То	UTS Min (N/mm²)	PS Min (N/mm <sup>2</sup> )	Elo Min (%)	Hardness Min(HB)	Hardness Max
SWEET	Round (Dia)	6	75	11-11-11-11-11-11-11-11-11-11-11-11-11-	- 4141 <sup>111</sup>	43× -	130	1922 - 1925 M
	Hex (a/F)	6	70		43° -	.35	130	9.2-31
	Square (A/F)	6	60		.5	and the	130	- 6
Rect	angle (Thickness)	6	50	3-	ALE IN-	and - ph	130	- 100



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### **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**

800

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



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