## CW507L

## LEAD FREE BRASS

#### DESCRIPTION

CW507L these brasses have relatively good corrosion resistance are moderately high in strength and in some forms and have very good ductility. They are available in many forms including rod, bar, sheet, plate and more.

### **CHEMICAL COMPOSITION**

China Calification	Element	s		Min (%	5) 🖓			Max (%)	JANS MIL	BBJHM
	Cu	THIS SEMEN	Althous	63.50		S ant	Print	65.50	>,	
ETH.	Pb	C. BUHAN	<i></i>	THIS	NS ME	A MARINE AND A MARINE	Ber	0.05	S	C ME
.uphs m	Fe	C.	at the	ANS ME	BBIHBI	×.	1 A	0.05	MEL	Childham
Blog	Sn <sub>c</sub>	METAL	HANSPIC	PAJA -	ć.,	ETHIS	- and Mit	0.10		<u></u>
, NS	AI	HAND	630.3.	5	METAL	.uphs h.	Bulle	0.02	<u>c.</u>	JET MAS
SMEL	and Ni	63.	ALS.	- SMETAN -	JHANS	by.		0.30		HANSPA
P.P.J.HP.	Total Othe	ers And	. NEMET	allithan -	52.	and	SMETAL	0.10	9	
6	Zn	ANS ME PA	ette.	×.	TALS	Remainder	Althant	62.		AL B

### **MECHANICAL PROPERTIES (AS PER TEMPER R350)**

Range (mm)	From	То	UTS Min (Mpa)	UTS Max (Mpa)	PS Min (Mpa)	Elongation Min (%)	Hardness Min	Hardness Max
Round (Dia)	1.5	75	350 🔊	440	170	28	è - M	- 14000
Hex (A/F)	3.00 💉	70 🔬	350	440	170 🔊	28	2400	63.
Square (A/F)	3.00	60	350	440 🔊	170	28	62	- 5
Rectangle (Thickness)	3.00	50	350 🔊	440	170	28	- ,9	- METRO
C MILL MILL			S Strange	aller.	140	<u></u>	£2	S.

### **RAJHANS METALS PRIVATE LIMITED**

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### PHYSICAL PROPERTIES

Melting Point - Liquidus°F	1710
Melting Point - Solidus°F	1660
Densitylb/cu in. at 68°F	0.306
Specific Gravity	8.47
Electrical Conductivity% IACS at 68°F	27
Thermal ConductivityBtu/ sq ft/ ft hr/ °F at 68°F	67
Coefficient of Thermal Expansion 68-57210- <sup>6</sup> per °F (68 – 572°F)	11.3
Specific Heat Capacity Btu/ lb /°F at 68°F	0.09
Modulus of Elasticity in Tensionksi	15000
Modulus of Rigidity ksi	5600

### LEAD FREE BRASS

### **FABRICATION PROPERTIES**

Technique	Suitability				
Soldering	Excellent				
Brazing	Excellent				
Capacity for being hot worked	Good				
Gas Shielded Arc Welding	Fair				
Coated Metal Arc Welding	Not Recommended				
Spot Weld	Good				
Seam Weld	Not Recommended				
Butt Weld	Good				
Capacity for Being Cold Worked	Excellent				
Capacity for Being Hot Formed	Poor				
Machinability Rating	30				
0					

### TYPICAL USES

- > Architecture
- > Automotive
- > Builders Hardware
- > Electrical
- > Fasteners
- > Industrial
- > Marine
- > Plumbing

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