CW509L

LEAD FREE BRASS

DESCRIPTION

CW509L is a lead free material which is however quite suitable for machining due to its structural constitution. CW509L can be therefore used as a cost-effective replacement for conventional lead-containing machining brass provided that it must not meet high requirements as regards mechanical properties and corrosion resistance.

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CHEMICAL COMPOSITION

Elements			Min (%)			Max (%)			250		
	Cu	5 SHET	- Linkson	59.00		3	C METRO	, which	61.50		
of the	Pb								0.20		
	Fe		. Ins	Sale Mart					0.20		
dian.	Sn			etallar -					0.20		
	Ni	. starter	digen.	.5	and the	1550			0.30		
. IS HE W	AI			a Martin -					0.05		
Partition.	Total Others		STE	and the -	62.	100		Ser Pro-	0.20	6800	
~	Zn					Remain	der				

MECHANICAL PROPERTIES ACCORDING TO EN12164 (AS PER TEMPER R410)

Range (mm)	From	То	UTS Min (Mpa)	PS Min (Mpa)	Elongation Min %	Hardness Min (HRB)	Hardness Max(HRB)
Round (Dia)	2	40	410	230	10	.S	cult - min
Hex (A/F)	3	35	410	230	10	chin- sh	- 91
Square (A/F)	3	35	410	230	10		-



RAJHANS METALS PRIVATE LIMITED

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PHYSICAL PROPERTIES

	Melting Point - Liquidus°F	1660
	Melting Point - Solidus°F	1650
	Density lb/cu in. at 68°F	0.303
Ş	Specific Gravity	8.39
	Electrical Conductivity % IACS at 68°F	28
	Thermal Conductivity Btu/ sq ft/ ft hr/ °F at 68°F	71
	Coefficient of Thermal Expansion 68-57210 ⁻⁶ per °F (68 – 572°F)	11.6
	Specific Heat Capacity Btu/ lb /°F at 68°F	0.09
	Modulus of Elasticity in Tension ksi	15000
	Modulus of Rigidity ksi	5600
	ST 37 97	

FABRICATION PROPERTIES

5° 63
nmended
nmended
Ch. Haller

TYPICAL USES

- > Architecture
- > Builders Hardware
- > Fasteners
- > Industrial



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