CW510L

LEAD FREE BRASS

DESCRIPTION

CW510L is a lead free material which is however quite suitable for machining due to its structural constitution. CW510 can be 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.

Elements Min (%) Max (%) 57.00 59.00 Cu Pb 0.20 - 3 Fe 0.30 -0.30 Sn _ Ni 0.30 _ AI 0.05 Total Others 0.20 _ Zn Remainder

CHEMICAL COMPOSITION

MECHANICAL PROPERTIES (AS PER TEMPER 430)

Range (mm)	From	То	UTS Min (Mpa)	PS Min (Mpa)	Elongation Min %	Hardness Min (HRB)	Hardness Max(HRB)
Round (Dia)	2	40	430	220	10		METHIN - HAMP
Hex (A/F)	3 🔊	35	430	220	10	SME - AHAM	- 63
Square (A/F)	3	35	430	220	10 AN	- 62.	-

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PHYSICAL PROPERTIES

139		
40 6 44 04 70		
10- ⁶ /K 21.70		
8.41 g/cm3		
107 Gpa		

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FABRICATION PROPERTIES

Joining Technique	Suitability		
Machinability (CuZn39Pb3=100 %)	60%		
Capacity for being cold worked	poor		
Capacity for being hot worked	Excellent		
Resistance welding (butt weld)	Fair		
inert gas shielded arc welding	Fair		
Gas welding	Fair		
Hard soldering	Excellent		
Soft soldering	Excellent		
Melting range	870-900 °C		
650-750 °C	650-750 °C		
450-550 °C	450-550 °C		
Thermal stress relieving (1-3 h)	250-350 °C		

TYPICAL USES

- > Bending
- > Forging
- > Riveting

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