CW505L

LEAD FREE BRASS

DESCRIPTION

CuZn30 as well as CuZn28 is combining excellent cold forming properties with good mechanical strength. CuZn30 has good hot forming properties and excellent soldering and brazing properties. Due to the outstanding deep drawing properties CuZn30 and the other two mentioned alloys are called "deep-draw" or "cartridge" brass.

Elements Min (%) Max (%) 69.00 71.00 Cu Pb 0.05 -1 0.05 Fe _ Sn 0.10 _ Ni 0.30 _ Al 0.02 **Total Others** 0.10 Remainder Zn

CHEMICAL COMPOSITION

MECHANICAL PROPERTIES (AS PER TEMPER R350)

Range (Inch)	From	То	UTS Min (Mpa)	UTS Max (Mpa)	PS Min (Mpa)	Elongation Min (%)	Hardness Min	Hardness Max
Round (Dia)	1.5	75	🔊 350	430		21	è - chf	- Hollow
Hex (A/F)	3	70 🔬	350	430	-	21	JHAM.	<u>5</u> 2.
Square (A/F)	3.5	60	350	430	-IS ME	21	62	

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PHYSICAL PROPERTIES

Melting Point - Liquidus°F	1750
Melting Point - Solidus°F	1680
Density Ib/cu in. at 68°F	0.308
Specific Gravity	8.53
Electrical Conductivity % IACS at 68°F	28
Thermal Conductivity Btu/ sq ft/ ft hr/ °F at 68°F	70
Coefficient of Thermal Expansion 68-57210"6 per °F (68 - 572°F)	11.1
Specific Heat Capacity Btu/ lb /°F at 68°F	0.09
Modulus of Elasticity in Tension ksi	16000
Modulus of Rigidity ksi	6000

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FABRICATION PROPERTIES

Technique	Suitability			
Soldering	Excellent			
Brazing	Excellent			
Oxyacetylene Welding	Good			
Gas Shielded Arc Welding	Good			
Coated Metal Arc Welding	Not Recommended			
Spot Weld	Fair			
Seam Weld	Not Recommended			
Butt Weld	Good			
Capacity for Being Cold Worked	Excellent			
Capacity for Being Hot Formed	Fair			
Machinability Rating	30			
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TYPICAL USES

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

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