DESCRIPTION

CW508L yellow brass has a copper content of not less than 62%, CuZn37 is the major brass alloy for the cold forming process. Even though brasses with lower zinc content have better cold forming properties, CuZn37 is the most used alloy. Reasons for this are on the one hand economical due to lower price of zinc compared to copper on the other hand the forming properties of this alloy meet the demand of many applications.

CHEMICAL COMPOSITION

Elements			Min (%)				Max (%)				
	Cu	No Phillip	C B. HILLING	62.00	0	.5	C. HE INC.	Hillip	64.00		
.cfm ²	Pb			- Thi					0.10		
. INE M	Fe	0-		in the lift.	P. B. Hillian				0.10		CELIFIER
b page	Sn			brilling -					0.10		
. 115	Al	. Hhite	bla,	.6	aff. Inc.	uhlfe		100	0.30		EINS
. IE HET	Ni			- William -					0.05		111115 111
CP Tipp.	Total Others	S MIS	us lite.	ahilihibi -	62.	. 05		All Property of the Party of th	0.10		100
e.	Zn					Remair	nder				185

MECHANICAL PROPERTIES ACCORDING TO EN12165 (AS PER TEMPER H070)

Range (mm)	From	То	UTS Min	PS Min	Elongation Min	Hardness Min (HB)	Hardness Max (HB)
Round (Dia)	8	75.00	D - 5111111	a Lillian		70	170-
Hex (A/F)	8	70.00	OF STATES	-	75.5	70	170
Square (A/F)	8	80.00	-	-,115	E HE	70	170

PHYSICAL PROPERTIES

Melting Point - Liquidus°F	1680
Density Ib/cu in. at 68°F	0.305
Specific Gravity	8.44
Electrical Conductivity % IACS at 68°F	27.6
Thermal Conductivity Btu/ sq ft/ ft hr/ °F at 68°F	67
Coefficient of Thermal Expansion 68-57210-6 per °F (68 – 572°F)	11.4
Specific Heat Capacity Btu/ lb /°F at 68°F	0.09
Modulus of Elasticity in Tension ksi	15000
Modulus of Rigidity ksi	5600

FABRICATION PROPERTIES

Technique	Suitability
Soldering	Excellent
Brazing	Excellent
Oxyacetylene Welding	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	Fair
Machinability Rating	35

TYPICAL USES

- > Fasteners
- Industrial