DESCRIPTION

Brass is essentially copper alloyed with zinc. It is strong but easy to form, stamp or draw which make it a common choice for a broad spectrum of applications. By varying the amount of zinc content it is possible to achieve a variety of characteristics including different levels of corrosion resistance, ductility and suitability for machining.

CHEMICAL COMPOSITION

Elements			Min (%)				Max (%)			
	Cu	Halife .	blb3,	59.00		, J.	N. P. British	blogg.	60.50	
.E MET	Pb			0.20		623			0.80	
OF THE	Sn		.S. HET	atalihing -				- METE	0.20	6127
6.	Fe			-					0.20	
affer this	Al	60710	G.	ETHIS -		P.B.Hiller			0.05	5 US HELL
Ship.	Ni			1111E III - RA					0.30	
62.	Zn	e William .	HP2/2	62.2		Remain	der	Will by the	b b Jun	

MECHANICAL PROPERTIES ACCORDING TO EN12164 (AS PER TEMPER R410)

Range (Inch)	From	То	UTS Min (N/mm²)	UTS Max (N/mm²)		Elongation Min (%)	Hardness Min	Hardness Max
Round (Dia)	2.00	40.00	410.00	affilia-	230.00	12.00	o -	
Hex (A/F)	2.00	35.00	410.00	- 6pg	230.00	12.00	Elips - Inte	-blrigg
Square (A/F)	2.00	35.00	410.00	-	230.00	12.00	- hp.,,	-

PHYSICAL PROPERTIES

	Melting Point - Liquidus°F	1650
	Melting Point - Solidus°F	1630
	Densitylb/cu in. at 68°F	0.304
	Specific Gravity	8.41
	Electrical Conductivity% IACS at 68°F	28
S	Thermal ConductivityBtu/ 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 CapacityBtu/ lb /°F at 68°F	0.09
	Modulus of Elasticity in Tensionksi	15000
	Modulus of Rigidityksi	5600
	7.00	

FABRICATION PROPERTIES

Technique	Suitability
Soldering	Excellent
Brazing	Good
Oxyacetylene Welding	Fair
Gas Shielded Arc Welding	Fair
Coated Metal Arc Welding	Not Recommended
Spot Weld	Not Recommended
Seam Weld	Not Recommended
Butt Weld	Fair
Capacity for Being Cold Worked	Fair
Capacity for Being Hot Formed	Excellent
Machinability Rating	60

TYPICAL USES

- > Builders Hardware
- > Consumer
- > Building
- > Industrial