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 (%)
, NS	Cu	59.00	60.00
, us high	Pb	0.80	1.60
P.D.J.Hiller	Sn	b LEHE BLIME - RE	0.20
. 0,	Fe	graffing - This	0.20
- HET TALL	Al	E METERS HAND	0.05
	Ni	alle the little - the transfer of the little -	0.30
10	Total Others	- 15 A	0.20
.TMS	Zn	Rem	ainder

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	230.00	12.00	- HE I'M - HHID	- blog
Hex (A/F)	2.00	35.00	410.00	230.00	12.00	11112	-
Square (A/F)	2.00	35.00	410.00	230.00	12.00	-	5 - JETP

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
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
The "High of the	1

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

