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	60.00	61.00
S. S. HECK	Pb	0.80	1.60
P.D.J.Hiller	Fe	if the statement - the	0.20
. 0,	Sn	Hulling - This	0.20
- METAL	Ni	e alikib- alikib aliki	0.30
	Al	alle the state of	0.05
10	Total Others	- L5 (1	0.20
.c/M ⁵	Zn	Re	mainder

MECHANICAL PROPERTIES ACCORDING TO EN12164 (AS PER TEMPER R410)

Range (Inch)	From	То	UTS Min (N/mm²)	PS Min (N/mm²)	Elongation Min (%)	Hardness Min	Hardness Max
Round (Dia)	2.00	40.00	410.00	230.00	12.00	uffille - uppi	blog.
Hex (A/F)	2.00	35.00	410.00	230.00	12.00	- 12 P	0
Square (A/F)	2.00	35.00	410.00	230.00	12.00	-	5 METAL

PHYSICAL PROPERTIES

Melting	g Point - Liquidus°F		1650
Melting	g Point - Solidus°F	Things.	1630
Density	/lb/cu in. at 68°F		0.304
Specific	c Gravity		8.41
Electric	al Conductivity% IACS at 68°F	in bring	27
Therma	al ConductivityBtu/ sq ft/ ft hr	/ °F at 68°F	69
	ient of Thermal Expansion 68- (68 – 572°F)	-57210 ⁻⁶	11.6
Specifi	c Heat CapacityBtu/ lb /°F at 6	58°F	0.09
Moduli	us of Elasticity in Tensionksi		15000
Moduli	us of Rigidityksi		5600

FABRICATION PROPERTIES

Technique	Suitability
Soldering	Excellent
Brazing	Good
Oxyacetylene Welding	Not Recommended
Gas Shielded Arc Welding	Not Recommended
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	70

TYPICAL USES

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