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

HUTT	Elements	S WEIGH	, IIII	Min (%)	C-	Elb		Max (%)	***
	Cu Cu	JHANE	6 Pro	59.0	0	in.	Me In.	FFJL	60.00	c (d)
o JE ME	Pb	62	18	0.80) JHANES	P.P.			5 1.60	IHANS THE
P.B.HHy.	Sn	ETALS	"ME ME"	aklikhin -	62.		, MS	S ME	0.20	61bg
C ₃	Fe	INE ME	6187HJa	-	ETALS		Ç.	CUIHAM	0.20	125
Mital	Al	Ply III	S	METALS-	IANSAM	BUIHA			0.05	MS ME
CHENT	Ni	.5	METAL	HANG -	BUTT	5		ME ALS	0.30	BUTHE
60	Total Others	S ENETH	HAME	- Gran	.%	, WE THE		HAME	0.20	, C ₃
EINE	Zn	THU BY		THE.	SMETH	Remain	der	9	.5	METAL

MECHANICAL PROPERTIES (AS PER TEMPER R410)

Range (mm)	From	То		UTS Max (N/mm²)	Elongation Min (%)	Hardness Min	Hardness Max
Round (Dia)	2.00	40.00	410.00	230.00	12.00 %	HILIP - HAND	-6Day
Hex (A/F)	2.00	35.00	410.00	230.00	12.00	- 6kg	s
Square (A/F)	2.00	35.00	410.00	230.00	12.00		s - WETE

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	₅ 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

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
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- **Builders Hardware**
- Consumer
- Building
- Industrial