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

6 Professional Contraction of the Contraction of th	Elements	S JETA		Min (%)				Max (%)	
6	₅ Cu	IHAME	612.3	59.00	nt.	<u> </u>	INS W	FBJH	60.50	
IE ME	Pb	6 Jan	(6)	0.20	JHRIJS .	b By			0.80	EIN'S HAIS WE
EBIHAN	Sn	TALS	NE MET	akillan -	6/L		ILS.	E WET	0.20	Blan
C.	Fe	INE ME	P.B.JHP	-	TALS.	18	E.	Z.A.HARIN	0.20	,115
WEIGHT	Al	Parilly.	C-	NEINS-	THE MIL	PIP/HIP.			0.05	5 NEWELL
OHAM'S	^{Alban} Ni		METAL	HUIZ III.	^F P _{TL}	c		NET ALS	0.30	RUIHI
62.	Zn	E ME INC	HIME	Blog	.%	Remaii	nder	IVINE W.	PB'ILE	C

MECHANICAL PROPERTIES (AS PER TEMPER R410)

Range (mm)	From	То		UTS Max (N/mm²)			Hardness Min	Hardness Max
Round (Dia)	2.00	40.00	410.00	WELDER - 13	230.00	12.00		EINE - MEN
Hex (A/F)	2.00	35.00	410.00	- 6pg	230.00	12.00	METAL - INF	-SP/III
Square (A/F)	2.00	35.00	410.00	-	230.00	12.00	- bb ₂₁₁	-

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

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

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