DESCRIPTION

High Tensile Brass are alloys of Copper and Zinc. HT2 is a duplex or alpha/beta alloy. Brass alloy HT2 is a versatile high strength, hot workable, machinable engineering alloy sometimes referred to as a Manganese Bronze or High Tensile Brass.

CHEMICAL COMPOSITION

A CHINIS	Elements		5 ME	Min (%)	61871			Max (%)	HAJIHI HA
100	Cu	5 USMELL	a A. HAME	56.00		S CHE	HANS	61.00	
ER	Pb	RAIHAN	4.	0.50	"EME!	C. Halle	Hy	1.50	o CHE
S HANE MY	Sn	C-	WE TALS	ME ME	RAJHAN	40.	(A)	2 1.00 LEWE	CUHANT
Blan	Fe	WE WITH	.HANS M.	entiti 0.20		NET ALS	" WE WE	1.50	40
, als	Al	IHANE,	Bry	0.30	WE THE	HURE	REJI.	2.00	SETALS.
JE NET	Mn	bh.	. 11.5	0.50	1HANS.	Hyar	.5	2.00	HAMSAN
RAIHA	Total Others	THE	NE MEI	PIHUM - 61	5	5	E ME AL	0.50	Blrg.
C	Zn	THE MIL EN	Hp.		INE	Remainder	AlHAM	bh.	

MECHANICAL PROPERTIES (AS PER TEMPER HBSR)

Range (mm)	From	То	UTS Min (Mpa)	PS Min (Mpa)	Elo Min (%)	Hardness Min	Hardness Max
Round (Dia)	10	40	520	0	12	HANG.	c
Roulid (Dia)	40	75	500	- CME	15	blu -	S - WETAN
Round (Dia)	40	70 🔑	500	. IHani.	15	.35	WEIGHT - HAND
Square (A/F)	40	60	500	612	15,5	META IN	Elby,
Rectangle (Thickness)	10	40	520	- 15	12	HUID - BURN	- 5
Rectaligle (Tillekiless)	40	50	500	ENELL	JH ^{ATT} 15	-	- William

PHYSICAL PROPERTIES

	- V
Melting Point	865°C
Density	8.63g/cm3
Electrical Conductivity	0.09 x 10-60.m
Thermal Conductivity	88.3W/m.K
Modulus of Elasticity	96.5 GPa

FABRICATION PROPERTIES

Capacity for being Cold formed	Poor
Capacity for being Hot worked	Good
Machinability Ration	30%
Resistance to Corrosion	Excellent
Suitability for soldering	Excellent

TYPICAL USES

- > Gas valves and fittings
- > Fasteners
- > Pump trim
- > Gears
- > Locks

- > Heavy-duty electrical connectors
- > Transmission components
 - > Marine hardware
 - > Safety tools and decorative metalwork