IS 320 HT2

MANGANESE BRONZE

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.

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CHEMICAL COMPOSITION

Elements	Min (%)	Max (%)
Cu	56.00	61.00
Pb	0.50	1.50
Sn	China and a statement of	1.00
Fe	0.20	1.50
Al	0.30	2.00
Mn	0.50	2.00
Total Others	and the second s	0.50
Zn	Remai	nder

MECHANICAL PROPERTIES ACCORDING TO IS320 HT2 (AS PER TEMPER HBSR)

Range (mm)	From	То	UTS Min (Mpa)	PS Min (Mpa)	Elo Min (%)	Hardness Min	Hardness Max
Pound (Dia)	10	40	520	3	12	and the second second	- Apr
Round (Dia)	40	75	500	- 1151	15	68° -	.s - 3
Round (Dia)	40	70	500	- Stanne	15		all - all -
Square (A/F)	40	60	500	64° -	15	a starting	alling - by
Rectangle (Thickness)	10	40	520	5	12	- 41 ¹²⁰ - 9	
	40	50	500	- HEI	15	63	5 - 61



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IS 320 HT2

MANANESE BRONZE

PHYSICAL PROPERTIES

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
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FABRICATION PROPERTIES

Capacity for being Cold formed	Po
Capacity for being Hot worked	G
Machinability Ration	30
Resistance to Corrosion	E>
Suitability for soldering	E>

oor	
Good	
80%	18 ¹²⁵ 9
xcellent	
xcellent	

TYPICAL USES

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

- > Heavy-duty electrical connectors
- > Transmission components

- > Marine hardware
- > Safety tools and decorative metalwork



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