C6783

MANGANESE BRONZE

DESCRIPTION

High Tensile Brass are alloys of Copper and Zinc. C6783 is a duplex or alpha/beta alloy. Brass alloy C6783 is a versatile high strength, hot workable, machinable engineering alloy sometimes referred to as a Manganese Bronze or High Tensile Brass.

CHEMICAL COMPOSITION

Electron and a stand	Elements		5	Min (%)	682			Max (%)	
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Cu	SHELL	- AJHAND	55.00		S MET	HAME	59.00	
	Pb	BUHAN	6	THIS	NS ME	C ANNO	P.p.	0.50	is shift
2	Fe		- IN	0.20	PAJHAN	×		ي 1.50	CALIFICATION
Bray.	Al 😞	METALS	UANSMI	0.20 e	<u>6</u>	ETHIS	, ME ME	2.00	
15	Mn	WHAT	63. J.	1.00	METALS	-up/Shi	P.P.J.M.	3.00	
ALS MET	Total Others	52	15	CMETAL-	JHANS .	62.3	5	- METAL	HANSPIC
a failte		ALS .	SMETT	JHAN	C.	Remainder	METAN	HANS	Blog

### **Mechanical Properties (As Per Temper BD)**

ETHIS	Range (MM)	From	То	UTS Min (Mpa)	PS Min (Mpa)	Elongation Min (%)	Hardness Min	Hardness Max	ans with
	Round (Dia)	6	50	540	-	12	NS ME	allthan -	
	Hex (A/F)	6 🖋	50 🔊	540	- ,	12	abilitan -	-	3
6	Square (A/F)	6	50	540	The - Rell	12	-	1 ¹² - 4 ¹	
Red	ctangle (Thickness)	6	50	540 🔊	- aputton	12	and the second s	SME - SHAM	

# PHYSICAL PROPERTIES

Specific Gravity

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8.63
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#### **FABRICATION PROPERTIES**

Technique	Suitability
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

- > Marine hardware
- > Valve seats
- > Synchronizer ring
- > Propeller shaft

- Pump shaft
- > Fasteners
- Lead screw nuts

# **F** RAJHANS METALS PRIVATE LIMITED