

# C6782

# MANGANESE BRONZE

## DESCRIPTION

High Tension Brass C6782 is valued for its excellent performance and reliable operation. It has high conductivity and durability and excellent corrosion resistance properties. It is also used as EDM electrode, high-voltage discharge tube electrode, resistance welding electrode and electric spark electrode.

## CHEMICAL COMPOSITION

Elements	Min (%)	Max (%)
Cu	56.00	60.50
Pb	-	0.50
Al	0.20	2.00
Mn	1.00	3.00
Total Others	-	-
Zn	Remainder	

## MECHANICAL PROPERTIES (AS PER TEMPER Ho2)

Range (MM)	From	To	UTS Min (Mpa)	PS Min (Mpa)	Elongation Min (%)	Hardness Min	Hardness Max
Round (Dia)	6	50	420	240	15	-	-
Hex (A/F)	6	50	420	240	15	-	-
Square (A/F)	6	50	420	240	15	-	-
Rectangle (Thickness)	6	50	420	240	15	-	-

## PHYSICAL PROPERTIES

Specific Gravity	8.3
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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

- Valves Stems
- Valve seats
- Synchronizer ring
- Propeller shaft
- Pump shaft
- Fasteners
- Lead screw nuts