

# CDA 675

# COPPER ALLOY

MANGENESE BRONZE

Alloy C67500 (CuZn37FeSnMn) is a wrought Manganese Bronze alloy with additions of iron, tin and manganese to increase the strength and corrosion resistance. The alloy can be cold worked to increase the strength and can be supplied in the half hard and fully hard condition. It has excellent hot working properties and can be close die forged into valves, connectors and other components for military applications. It can also be hot headed or upset forged for manufacturing fasteners.

## Chemical Properties

Cu	Fe	Mn	Sn	Zn
58.5	1.4	0.1	1	39

## Mechanical Properties

Yield strength	Tensile strength	Elongation
Min 0.2% PSI	Min PSI	Min %
207	448	25

## Physical Properties

Density	Elastic Modulus	Thermal Conductivity	Specific Heat	Melting Point
(Kg/m <sup>3</sup> )	(Gpa)	(W/m.K)	0-100°C	(nΩ.m)
8.63	103	105.6	377	865-890

## Heat Treatment

The annealing temperature of B16/360 Brass is 800°-110°0F

## Equivalent Designation

UNS C67500

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