

# Material: SAE J462 CA948

## Standard Specification for Cast Copper Alloys

**Group:** Non-Ferrous Copper Alloy

**Sub Group:** SAE J462 Cast Copper Alloys

**Application:** Intended for Valve, Pump, General Engineering, Automotive and Other Industries Grade

**Belongs to the Industry:** Casting

Chemical Composition			Heat Treatment	
Aluminium	Al %	0.005 max.	As-Cast	
Iron	Fe %	0.250 max.		
Manganese	Mn %	0.200 max.		
Nickel	Ni %	4.500 - 6.000		
Lead	Pb %	1.000 max.		
Antimony	Sb %	0.150 max.		
Silicon	Si %	4.500 - 6.000		
Tin	Sn %	4.500 - 6.000		
Zinc	Zn %	2.500 max.		
Other	Ot%	0.250 max.		
Zinc	Zn %	2.500 max.		
Copper	Cu %	84.000 - 89.000		
-	-	-		
-	-	-		
-	-	-		

  

Mechanical Properties	
Tensile Strength in Mpa	276 min.
Yield Strength in Mpa	138 min.
Elongation in %	20 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
C94800	UNS	USA	Rod, Bar, Tube and Shapes
B292-B	ASTM	USA	Casting
B30 C94800	ASTM	USA	Ingot and Casting
B505 C94800	ASTM	USA	Casting
B584 C94800	ASTM	USA	Casting
SB-505 C94800	ASME	USA	Casting
C94800	SAE	USA	Casting

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