

# Material: SAE J462 CA878

## 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		
Aluminium	Al %	0.150 max.
Arsenic	As %	0.050 max.
Iron	Fe %	0.150 max.
Magnesium	Mg %	0.010 max.
Manganese	Mn %	0.150 max.
Other	Ot%	0.250 max.
Phosphorus	P %	0.010 max.
Lead	Pb %	0.150 max.
Sulphur	S %	0.050 max.
Antimony	Sb %	0.050 max.
Silicon	Si %	3.800 - 4.200
Tin	Sn %	0.250 max.
Copper	Cu %	80.000 - 83.000
Zinc	Zn %	Balance
-	-	-

Heat Treatment
As-Cast

Mechanical Properties	
Tensile Strength in Mpa	586 min.
Yield Strength in Mpa	345 min.
Elongation in %	25 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
C87800	UNS	USA	Rod, Bar, Tube and Shapes
B176 C87800	ASTM	USA	Casting
B30 C87800	ASTM	USA	Ingot and Casting
C87800	SAE	USA	Casting
C87800	UNS	USA	Casting
-	-	-	-
-	-	-	-

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