

# Material: SAE J462 C83800

## 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 %	0.300 max.				
Ni + Co	Ni% + Co%	1.000 max.				
Phosphorus	P %	0.030 max.				
Lead	Pb %	5.000 - 7.000				
Sulphur	S %	0.080 max.				
Antimony	Sb %	0.250 max.				
Silicon	Si %	0.005 max.				
Tin	Sn %	3.300 - 4.200				
Zinc	Zn %	5.000 - 8.000				
Copper	Cu %	82.000 - 83.800	<b>Mechanical Properties</b>			
-	-	-			Tensile Strength in Mpa	205 min.
-	-	-			Yield Strength in Mpa	90 - 95
-	-	-			Elongation in %	16 - 20
-	-	-			Reduction of Area in %	-
-	-	-			Hardness in BHN	-
-	-	-	Impact in Joule	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
C83800	UNS	USA	Rod, Bar, Tube and Shapes
B145-4B	ASTM	USA	Casting
B30 C83800	ASTM	USA	Casting
B505 C83800	ASTM	USA	Casting
CA838	SAE	USA	Casting
B584 C83800	ASTM	USA	Casting
SB-505 C83800	ASME	USA	Casting

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