

# Material: SAE J462 CA935

## 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 %	0.200 max.		
Nickel	Ni %	0.800 max.		
Phosphorus	P %	0.050 max.		
Lead	Pb %	8.000 - 11.000		
Antimony	Sb %	0.350 max.		
Silicon	Si %	0.005 max.		
Tin	Sn %	4.500 - 6.000		
Zinc	Zn %	2.000 max.		
Other	Ot%	0.200 max.		
Copper	Cu %	83.00 - 86.000		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			Mechanical Properties	
			Tensile Strength in Mpa	172 - 207
			Yield Strength in Mpa	83 - 110
			Elongation in %	8 - 12
			Reduction of Area in %	-
			Hardness in BHN	-
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
C93500	UNS	USA	Rod, Bar, Tube and Shapes
B30 C93500	ASTM	USA	Ingot and Casting
B271 C93500	ASTM	USA	Casting
SB-505 C93500	ASME	USA	Casting
SB-584 C93500	ASME	USA	Casting
C93500	SAE	USA	Casting
C93500	AS	Australia	Ingot and Casting

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