

Material: SAE J462 C94700

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 or Solution Annealing			
Iron	Fe %	0.250 max.				
Manganese	Mn %	0.200 max.				
Ni + Co	Ni% + Co%	4.500 - 6.000				
Phosphorus	P %	0.050 max.				
Lead	Pb %	0.100 max.				
Sulphur	S %	0.050 max.				
Antimony	Sb %	0.150 max.				
Silicon	Si %	0.005 max.				
Tin	Sn %	4.500 - 6.000				
Zinc	Zn %	1.000 - 2.500	Mechanical Properties			
Copper	Cu %	85.000 - 90.000			Tensile Strength in Mpa	310 - 515
-	-	-			Yield Strength in Mpa	140 - 345
-	-	-			Elongation in %	5 - 25
-	-	-			Reduction of Area in %	-
-	-	-	Hardness in BHN	-		
-	-	-	Impact in Joule	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
C94700	UNS	USA	Rod, Bar, Tube and Shapes
B292-A	ASTM	USA	Casting
B30 C94700	ASTM	USA	Ingot and Casting
B505 C94700	ASTM	USA	Casting
B584 C94700	ASTM	USA	Casting
SB-505 C94700	ASME	USA	Casting
CA947	SAE	USA	Casting

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