



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 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 -	
Copper	Cu %	85.000 - 90.000		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

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

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

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