

Material: SAE J462 CA947

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 %	0.005 max.
Iron	Fe %	0.250 max.
Manganese	Mn %	0.200 max.
Nickel	Ni %	4.500 - 6.000
Other	Ot%	0.250 max.
Lead	Pb %	0.100 max.
Antimony	Sb %	0.150 max.
Silicon	Si %	0.005 max.
Tin	Sn %	4.500 - 6.000
Zinc	Zn %	2.500 max.
Copper	Cu %	85.000 - 90.000
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
As-Cast or Solution Annealing	

Mechanical Properties	
Tensile Strength in Mpa	310 - 517
Yield Strength in Mpa	138 - 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
C94700	SAE	USA	Casting

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