

Material: SAE J462 CA943

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 %	0.150 max.		
Nickel	Ni %	0.800 - 4.500		
Phosphorus	P %	0.050 max.		
Lead	Pb %	22.000 - 25.000		
Antimony	Sb %	0.800 max.		
Silicon	Si %	0.005 max.		
Tin	Sn %	4.500 - 6.000		
Zinc	Zn %	0.500 max.		
Other	Ot%	0.200 max.		
Copper	Cu %	68.500 - 73.500		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			Mechanical Properties	
			Tensile Strength in Mpa	145 min.
			Yield Strength in Mpa	-
			Elongation in %	7 min.
			Reduction of Area in %	-
			Hardness in BHN	-
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
C94300	UNS	USA	Rod, Bar, Tube and Shapes
B144-3E	ASTM	USA	Casting
B30 C94300	ASTM	USA	Ingot and Casting
B505 C94300	ASTM	USA	Casting
C94300	SAE	USA	Casting
SB-505 C94300	ASME	USA	Casting
SB-584 C94300	ASME	USA	Casting

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