

Material: SAE J462 C93700

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.		
Ni + Co	Ni% + Co%	1.000 max.		
Phosphorus	P %	1.500 max.		
Lead	Pb %	8.000 - 11.000		
Sulphur	S %	0.080 max.		
Antimony	Sb %	0.550 max.		
Silicon	Si %	0.005 max.		
Tin	Sn %	9.000 - 11.000		
Zinc	Zn %	0.800 max.		
Copper	Cu %	78.000 - 82.000	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	205 - 275
-	-	-	Yield Strength in Mpa	85 - 170
-	-	-	Elongation in %	6 - 15
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
C93700	UNS	USA	Rod, Bar, Tube and Shapes
B22 C93700	ASTM	USA	Casting
B30 C93700	ASTM	USA	Ingot and Casting
SB-505 C93700	ASME	USA	Casting
SB-584 C93700	ASME	USA	Casting
CA937	SAE	USA	Casting
C93700	AS	Australia	Ingot and Casting

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