

Material: SAE J462 C93500

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 %	0.200 max.
Ni + Co	Ni% + Co%	1.000 max.
Phosphorus	P %	0.050 max.
Lead	Pb %	8.000 - 11.000
Sulphur	S %	0.080 max.
Antimony	Sb %	0.300 max.
Silicon	Si %	0.005 max.
Tin	Sn %	4.300 - 6.000
Zinc	Zn %	2.000 max.
Copper	Cu %	83.00 - 86.000
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
As-Cast	

Mechanical Properties	
Tensile Strength in Mpa	195 - 205
Yield Strength in Mpa	85 - 110
Elongation in %	12 - 15
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
C93500	UNS	USA	Rod, Bar, Tube and Shapes
B30 C93500	ASTM	USA	Ingot and Casting
B271 C93500	ASTM	USA	Casting
SB-505 C93500	ASME	USA	Casting
SB-584 C93500	ASME	USA	Casting
CA935	SAE	USA	Casting
C93500	AS	Australia	Ingot and Casting

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