

Material: SAE J462 C86500

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 %	0.500 - 1.500	As-Cast	
Iron	Fe %	0.400 - 2.000		
Manganese	Mn %	0.100 - 1.500		
Ni + Co	Ni% + Co%	1.000 max.		
Lead	Pb %	0.400 max.		
Tin	Sn %	1.000 max.		
Zinc	Zn %	36.000 - 42.000		
Copper	Cu %	55.000 - 60.000		
-	-	-		
			Mechanical Properties	
-	-	-	Tensile Strength in Mpa	448 - 485
-	-	-	Yield Strength in Mpa	170 - 172
-	-	-	Elongation in %	20 - 25
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
C86500	UNS	USA	Rod, Bar, Tube and Shapes
B147-8A	ASTM	USA	Casting
SB-505 C86500	ASME	USA	Casting
SB-584 C86500	SAE	USA	Casting
CA865	SAE	USA	Casting
SAE 43	SAE	USA	Casting
C86500	AS	Australia	Casting

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