

Material: ASTM B30 C90500

Standard Specification for Copper Alloys Ingot and Casting

Group: Non-Ferrous Copper Alloy

Sub Group: ASTM B30 Copper Alloys Ingot and Casting

Application: Intended for Valve, Pump, General Engineering, Automotive and Other Industries Grade

Belongs to the Industry: Ingot and Casting

Chemical Composition			Heat Treatment	
Aluminium	Al %	0.005 max.	As-Cast	
Iron	Fe %	0.150 max.		
Ni + Co	Ni% + Co%	0.800 max.		
Phosphorus	P %	0.030 max.		
Lead	Pb %	0.250 max.		
Sulphur	S %	0.050 max.		
Antimony	Sb %	0.200 max.		
Silicon	Si %	0.005 max.		
Tin	Sn %	9.500 - 10.500		
Zinc	Zn %	1.500 - 3.000		
Copper	Cu %	86.000 - 89.000	Mechanical Properties	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			Tensile Strength in Mpa	276 min.
			Yield Strength in Mpa	124 min.
			Elongation in %	20 min.
			Reduction of Area in %	-
			Hardness in BHN	-
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
C90500	UNS	USA	Rod, Bar, Tube and Shapes
B271 C90500	ASTM	USA	Casting
SB-505 C90500	ASME	USA	Casting
SB-584 C90500	ASME	USA	Casting
CA905	SAE	USA	Casting
SAE62	SAE	USA	Casting
4845	SAE	USA	Casting

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Customer Care: +91-99090 45075 Email: info@icastllp.com