

ASTM B271 Tin Bronze and Leaded Tin Bronze UNS C90500

Standard Specification for Copper-Base Alloy Centrifugal Castings

Group - Non-Ferrous Copper Alloy

Sub Group - ASTM B271 Copper-Base Alloy Centrifugal Castings

Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries Grade Belongs to the Industry - Rod, Bar, Tube and Shapes

Chemical Composition			Heat Treatment	
Tin	Sn %	9.000 - 11.000		
Lead	Pb %	0.300 max.		
Zinc	Zn %	1.000 - 3.000		
Iron	Fe %	0.200 max.	As-Cast	
Ni + Co	Ni% + Co%	1.000 max.		
Aluminium	Al %	0.005 max.		
Silicon	Si %	0.005 max.		
Antimony	Sb %	0.200 max.		
Sulphur	S %	0.050 max.	Mechanical Properties	
Phosphorus	P %	0.050 max.	Tensile Strength in Mpa	276 min.
Copper	Cu %	86.000 - 89.000	Yield Strength in Mpa	124 min.
-	-	-	Elongation in %	20 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impac <mark>t in Joule</mark>	-

Cross Reference Table				
Material	Standard	Country	Grade Belong to the Industry	
B30 C90500	ASTM	USA	Ingot and Casting	
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	

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

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