



## ASTM B271 Tin Bronze and Lead Tin Bronze UNS C90300

### 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 %	7.500 - 9.000	As-Cast	
Lead	Pb %	0.300 max.		
Zinc	Zn %	3.000 - 5.000		
Iron	Fe %	0.200 max.		
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.		
Phosphorus	P %	0.050 max.		
Copper	Cu %	86.000 - 89.000	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	310 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
B30 C90300	ASTM	USA	Ingot and Casting
B505 C90300	ASTM	USA	Casting
CA903	SAE	USA	Casting
SAE 620	SAE	USA	Casting
SB-505 C90300	ASME	USA	Casting
SB-584 C90300	ASME	USA	Casting
CACIn402	KS	Korea	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](mailto:marketing@gravitycastindia.com)**

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