

## Material - ASTM B271 High-Lead Tin Bronze UNS C93500

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 %	4.300 - 6.000	As-Cast	
Lead	Pb %	8.000 - 10.000		
Zinc	Zn %	2.000 max.		
Iron	Fe %	0.200 max.		
Ni + Co	Ni% + Co%	1.000 max.		
Aluminium	Al %	0.005 max.		
Silicon	Si %	0.005 max.		
Antimony	Sb %	0.300 max.		
Sulphur	S %	0.080 max.	Mechanical Properties	
Phosphorus	P %	0.050 max.	Tensile Strength in Mpa	207 min.
Copper	Cu %	83.000 - 86.000	Yield Strength in Mpa	97 min.
-	-	-	Elongation in %	15 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardn <mark>ess in BH</mark> N	-
-	-	-	Impac <mark>t in Joule</mark>	-

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