



Material - ASTM B505 High-Leaded Tin Bronze UNS C93500

Standard Specification for Copper Alloy Continuous Casting

Group - Non-Ferrous Copper Alloy

Sub Group - ASTM B505 / 505M Copper Alloys for Continuous Casting

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 %	4.3000 - 6.000	As Cast or Solution Annealing and Precipitation	
Lead	Pb %	8.000 - 10.000		
Zinc	Zn %	2.000 max.		
Ni + Cu	Ni% + Cu%	1.000 max.		
Iron	Fe %	0.200 max.		
Antimony	Sb %	0.300 max.		
Sulphur	S %	0.080 max.		
Phosphorus	P %	1.500 max.		
Aluminium	Al %	0.005 max.		
Silicon	Si %	0.005 max.		
Copper	Cu %	83.000 - 86.000	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	207 min.
-	-	-	Yield Strength in Mpa	110 min.
-	-	-	Elongation in %	12 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

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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