



Material - ASTM B505 High-Leaded Tin Bronze UNS C93600

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 %	6.000 - 8.000	As Cast or Solution Annealing and Precipitation	
Lead	Pb %	11.000 - 13.000		
Zinc	Zn %	1.000 max.		
Ni + Cu	Ni% + Cu%	1.000 max.		
Iron	Fe %	0.200 max.		
Antimony	Sb %	0.550 max.		
Sulphur	S %	0.080 max.		
Phosphorus	P %	1.500 max.		
Aluminium	Al %	0.005 max.		
Silicon	Si %	0.005 max.		
Copper	Cu %	79.000 - 83.000	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	227 min.
-	-	-	Yield Strength in Mpa	138 min.
-	-	-	Elongation in %	10 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
B30 C93600	ASTM	USA	Ingot and Casting
B66 C93600	ASTM	USA	Casting
B271 C93600	ASTM	USA	Casting
B505 C93600	ASTM	USA	Casting
CACIn406	KS	Korea	Ingot and Casting
SB-271 C93600	ASME	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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