



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

ASTM B271 Tin Bronze and Lead Tin Bronze UNS C92300

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 - 1.000		
Zinc	Zn %	2.500 - 5.000		
Iron	Fe %	0.250 max.		
Ni + Co	Ni% + Co%	1.000 max.		
Aluminium	Al %	0.005 max.		
Silicon	Si %	0.005 max.		
Antimony	Sb %	0.250 max.		
Sulphur	S %	0.050 max.		
Phosphorus	P %	0.050 max.		
Copper	Cu %	85.000 - 89.000	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	234 min.
-	-	-	Yield Strength in Mpa	110 min.
-	-	-	Elongation in %	22 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
B30 2B	ASTM	USA	Ingot and Casting
B30 C92300	ASTM	USA	Ingot and Casting
B271 C92300	ASTM	USA	Casting
B505 C92300	ASTM	USA	Casting
B584 C92300	ASTM	USA	Casting
SB-505 C92300	ASME	USA	Casting
CA923	SAE	USA	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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