



Material - ASTM B271 Leaded Nickel Bronze UNS C97600

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 %	3.500 - 4.500	As-Cast	
Lead	Pb %	3.000 - 5.000		
Zinc	Zn %	3.000 - 9.000		
Iron	Fe %	1.500 max.		
Ni + Co	Ni% + Co%	19.000 - 21.500		
Aluminium	Al %	0.005 max.		
Silicon	Si %	0.150 max.		
Antimony	Sb %	0.250 max.		
Sulphur	S %	0.080 max.		
Phosphorus	P %	0.050 max.		
Other	Ot%	1.000 max.	Mechanical Properties	
Copper	Cu %	63.000 - 67.000	Tensile Strength in Mpa	276 min.
-	-	-	Yield Strength in Mpa	117 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 11A	ASTM	USA	Ingot and Casting
B30 C97600	ASTM	USA	Ingot and Casting
B271 C97600	ASTM	USA	Casting
B505 C97600	ASTM	USA	Casting
B584 C97600	ASTM	USA	Casting
SB-505 C97600	ASME	USA	Casting
SB-584 C97600	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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