Material: ASTM B271 High-Lead Tin Bronze UNS C93600

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		
Tin	Sn %	6.000 - 8.000
Lead	Pb %	11.000 - 13.000
Zinc	Zn %	1.000 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 %	0.550 max.
Sulphur	S %	0.080 max.
Phosphorus	P %	0.150 max.
Copper	Cu %	79.000 - 83.000
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Cast

Mechanical Properties	
Tensile Strength in Mpa	193 min.
Yield Strength in Mpa	83 min.
Elongation in %	15 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
-	-	-	-

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