

ASTM B271 Tin Bronze and Lead Tin Bronze UNS C90500

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 %	9.000 - 11.000	As-Cast	
Lead	Pb %	0.300 max.		
Zinc	Zn %	1.000 - 3.000		
Iron	Fe %	0.200 max.		
Ni + Co	Ni% + Co%	1.000 max.		
Aluminium	Al %	0.005 max.		
Silicon	Si %	0.005 max.		
Antimony	Sb %	0.200 max.		
Sulphur	S %	0.050 max.		
Phosphorus	P %	0.050 max.		
Copper	Cu %	86.000 - 89.000	Mechanical Properties Tensile Strength in Mpa 276 min. Yield Strength in Mpa 124 min. Elongation in % 20 min. Reduction of Area in % - Hardness in BHN - Impact in Joule -	
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-	-	-		
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
B30 C90500	ASTM	USA	Ingot and Casting
B271 C90500	ASTM	USA	Casting
SB-505 C90500	ASME	USA	Casting
SB-584 C90500	ASME	USA	Casting
CA905	SAE	USA	Casting
SAE62	SAE	USA	Casting
4845	SAE	USA	Casting

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