

Material: ASTM B66 C93600

Standard Specification for Gear Bronze Alloy Casting

Group: Non-Ferrous Copper Alloy

Sub Group: ASTM B66 Gear Bronze Alloy Casting

Application: Intended for Valve, Pump, General Engineering, Automotive and Other Industries Grade

Belongs to the Industry: Casting

Chemical Composition			Heat Treatment	
Aluminium	Al %	0.005 max.	As-Cast	
Iron	Fe %	0.200 max.		
Ni + Co	Ni% + Co%	1.000 max.		
Phosphorus	P %	0.150 max.		
Lead	Pb %	11.000 - 13.000		
Sulphur	S %	0.080 max.		
Antimony	Sb %	0.550 max.		
Silicon	Si %	0.005 max.		
Tin	Sn %	6.000 - 8.000		
Zinc	Zn %	1.000 max.		
Copper	Cu %	79.000 - 83.000	Mechanical Properties	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			Tensile Strength in Mpa	221 min.
			Yield Strength in Mpa	110 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
C93600	UNS	USA	Rod, Bar, Tube and Shapes
B30 C93600	ASTM	USA	Ingot and 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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