

Material: ASTM B66 C93400

Standard Specification for Gear Bronze Alloy Casting

Group: Non-Ferrous Copper Alloy

Sub Group: ASTM B427 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 %	0.500 max.		
Lead	Pb %	7.000 - 9.000		
Sulphur	S %	0.080 max.		
Antimony	Sb %	0.500 max.		
Silicon	Si %	0.005 max.		
Tin	Sn %	7.000 - 9.000		
Zinc	Zn %	0.800 max.		
Copper	Cu %	82.000 - 85.000	Mechanical Properties	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			Tensile Strength in Mpa	234 min.
			Yield Strength in Mpa	138 min.
			Elongation in %	8 min.
			Reduction of Area in %	-
			Hardness in BHN	-
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
C93400	UNS	USA	Rod, Bar, Tube and Shapes
B30 C93400	ASTM	USA	Ingot and Casting
B 505 C93400	ASTM	USA	Casting
SB-505 C93400	ASME	USA	Casting
-	-	-	-
-	-	-	-
-	-	-	-

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