

Material: ASME SB-584 C93800

Standard Specification for Copper Alloy Sand Casting for General Applications

Group: Non-Ferrous Copper Alloy

Sub Group: ASME SB-584 Copper Alloy Sand Casting for General Applications

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 %	0.150 max.		
Ni + Cu	Ni% + Cu%	1.000 max.		
Phosphorus	P %	0.050 max.		
Lead	Pb %	13.000 - 16.000		
Sulphur	S %	0.080 max.		
Antimony	Sb %	0.800 max.		
Silicon	Si %	0.005 max.		
Tin	Sn %	6.300 - 7.500		
Zinc	Zn %	0.800 max.		
Copper	Cu %	75.000 - 79.000	Mechanical Properties	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			Tensile Strength in Mpa	179 min.
			Yield Strength in Mpa	97 min.
			Elongation in %	12 min.
			Reduction of Area in %	-
			Hardness in BHN	-
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
C93800	UNS	USA	Rod, Bar, Tube and Shapes
B30 C93800	ASTM	USA	Ingot and Casting
B66 C93800	ASTM	USA	Ingot and Casting
SB-505 C93800	ASME	USA	Casting
C93800	SAE	USA	Casting
CA938	SAE	USA	Casting
CACIn604	KS	Korea	Ingot and Casting

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