

Material: ASTM B271 C84800

Standard Specification for Copper-Base Alloy Centrifugal Casting

Group: Non-Ferrous Copper Alloy

Sub Group: ASTM B271 Copper-Base Alloy Centrifugal 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 %	0.400 max.		
Ni + Cu	Ni% + Cu%	0.400 max.		
Phosphorus	P %	0.020 max.		
Lead	Pb %	5.500 - 7.000		
Sulphur	S %	0.080 max.		
Antimony	Sb %	0.250 max.		
Silicon	Si %	0.005 max.		
Tin	Sn %	2.000 - 3.000		
Zinc	Zn %	13.000 - 17.000		
Copper	Cu %	75.000 - 77.000	Mechanical Properties	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			Tensile Strength in Mpa	193 min.
			Yield Strength in Mpa	83 min.
			Elongation in %	16 min.
			Reduction of Area in %	-
			Hardness in BHN	-
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
C84800	UNS	USA	Rod, Bar, Tube and Shapes
B30 C84800	ASTM	USA	Ingot and Casting
B505 C84800	ASTM	USA	Rod, Bar Tube and Shapes
B584 C84800	ASTM	USA	Casting
SB-505 C84800	ASME	USA	Casting
SB-584 C84800	ASME	USA	Casting
B145-5B	ASTM	USA	Casting

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Customer Care: +91-99090 45075 Email: info@icastllp.com