

Material: ASTM B176 C85800

Standard Specification for Copper Alloys Casting

Group: Non-Ferrous Copper Alloy

Sub Group: ASTM B176 Copper Alloys Casting

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

Belongs to the Industry: Casting

Chemical Composition			Heat Treatment	
Aluminium	Al %	0.550 max.	As-Cast	
Arsenic	As %	0.050 max.		
Iron	Fe %	0.500 max.		
Manganese	Mn %	0.250 max.		
Ni + Co	Ni% + Co%	0.500 max.		
Phosphorus	P %	0.010 max.		
Lead	Pb %	1.500 max.		
Sulphur	S %	0.050 max.		
Antimony	Sb %	0.050 max.		
Silicon	Si %	0.250 max.		
Tin	Sn %	1.500 max.	Mechanical Properties	
Zinc	Zn %	31.000 - 41.000		
Copper	Cu %	57.000 min.		
-	-	-		
-	-	-		
-	-	-		
			Tensile Strength in Mpa	379 min.
			Yield Strength in Mpa	207 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
C85800	UNS	USA	Rod, Bar, Tube and Shapes
B30 C85800	ASTM	USA	Casting
CA858	SAE	USA	Casting
C85800	SAE	USA	Casting
C85800	UNS	USA	Casting
-	-	-	-
-	-	-	-

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