

Material: ASTM B176 UNS C85800

Standard Specification for Copper Alloy Die Castings

Group: Non-Ferrous Copper Alloy

Sub Group: ASTM B176 Copper Alloy Die Castings

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

Belongs to the Industry: Casting

Chemical Composition			Heat Treatment	
Tin	Sn %	1.500 max.	As-Cast	
Lead	Pb %	1.500 max.		
Zinc	Zn %	31.000 - 41.000		
Iron	Fe %	0.500 max.		
Ni + Cu	Ni% + Cu%	0.500 max.		
Aluminium	Al %	0.550 max.		
Manganese	Mn %	0.250 max.		
Silicon	Si %	0.250 max.		
Antimony	Sb %	0.050 max.		
Sulphur	S %	0.050 max.		
Phosphorus	P %	0.010 max.	Mechanical Properties	
Copper	Cu %	57.000 min.		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			Mechanical Properties	
			Tensile Strength in Mpa	379 min.
			Yield Strength in Mpa	207 min.
			Elongation in %	15 min.
			Reduction of Area in %	-
			Hardness in HRB	55 - 60
			Impact in Joule	54 min. @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
B176 C85800	ASTM	USA	Casting
B30 C85800	ASTM	USA	Casting
CA858	SAE	USA	Casting
C85800	SAE	USA	Casting
-	-	-	-
-	-	-	-
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