



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.	Mechanical Properties	
Sulphur	S %	0.050 max.	Tensile Strength in Mpa	379 min.
Phosphorus	P %	0.010 max.	Yield Strength in Mpa	207 min.
Copper	Cu %	57.000 min.	Elongation in %	15 min.
-	-	-	Reduction of Area in %	-
-	-		Hardness in HRB	55 - 60
-	-	-	Impac <mark>t in Joule</mark>	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	
-	-	-	-	
-	-	-	-	
-	-	-	-	

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

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