



Material - SAE J462 C85800

Standard Specification for Cast Copper Alloys

Group - Non-Ferrous Copper Alloy

Sub Group - SAE J462 Cast Copper Alloys

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

Grade Belongs to the Industry - Casting

Chemical Composition			Heat Treatment	
Aluminium	Al %	0.500 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	Tensile Strength in Mpa	380 min.
Copper	Cu %	57.000 min.	Yield Strength in Mpa	205 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
B176 C85800	ASTM	USA	Casting
B30 C85800	ASTM	USA	Casting
CA858	SAE	USA	Casting
C85800	UNS	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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