

Material: SAE J462 C83600

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 %	0.005 max.	As-Cast	
Iron	Fe %	0.300 max.		
Ni + Cu	Ni% + Cu%	1.000 max.		
Phosphorus	P %	0.050 max.		
Lead	Pb %	4.000 - 6.000		
Sulphur	S %	0.080 max.		
Antimony	Sb %	0.250 max.		
Silicon	Si %	0.005 max.		
Tin	Sn %	4.000 - 6.000		
Zinc	Zn %	4.000 - 6.000		
Copper	Cu %	84.000 - 86.000		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Mechanical Properties	
Tensile Strength in Mpa	205 - 345
Yield Strength in Mpa	95 - 170
Elongation in %	12 - 20
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
C83600	UNS	USA	Rod, Bar, Tube and Shapes
B271 C83600	ASTM	USA	Casting
B505 C83600	ASTM	USA	Casting
B584 C83600	ASTM	USA	Casting
B30 C83600	ASTM	USA	Casting
B62 C83600	ASTM	USA	Casting
4855	SAE	USA	Casting

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