



Material - SAE J462 C85200

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 %	0.600 max.		
Ni + Co	Ni% + Co%	1.000 max.		
Phosphorus	P %	0.020 max.		
Lead	Pb %	1.500 - 3.800		
Sulphur	S %	0.050 max.		
Antimony	Sb %	0.200 max.		
Silicon	Si %	0.050 max.		
Tin	Sn %	0.700 - 2.000	Mechanical Properties	
Zinc	Zn %	20.000 - 27.000	Tensile Strength in Mpa	240 min.
Copper	Cu %	70.000 - 74.000	Yield Strength in Mpa	85 min.
-	-	-	Elongation in %	25 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
C85200	UNS	USA	Rod, Bar, Tube and Shapes
B146-6A	ASTM	USA	Casting
B271 C85200	ASTM	USA	Casting
B30 6A	ASTM	USA	Ingot and Casting
B30 C85200	ASTM	USA	Ingot and Casting
CA852	SAE	USA	Casting
SB-584 C85200	ASME	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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