



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - SAE J462 C87800

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 %	0.150 max.	As-Cast	
Arsenic	As %	0.050 max.		
Iron	Fe %	0.150 max.		
Magnesium	Mg %	0.010 max.		
Manganese	Mn %	0.150 max.		
Ni + Co	Ni% + Co%	0.200 max.		
Phosphorus	P %	0.010 max.		
Lead	Pb %	0.150 max.		
Sulphur	S %	0.050 max.		
Antimony	Sb %	0.050 max.		
Silicon	Si %	3.800 - 4.200	Mechanical Properties	
Tin	Sn %	0.250 max.	Tensile Strength in Mpa	585 min.
Zinc	Zn %	12.000 - 16.000	Yield Strength in Mpa	345 min.
Copper	Cu %	80 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
C87800	UNS	USA	Rod, Bar, Tube and Shapes
B176 C87800	ASTM	USA	Casting
B30 C87800	ASTM	USA	Ingot and Casting
CA878	SAE	USA	Casting
C87800	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

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.

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