



Material - SAE J462 C92700

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 %	0.200 max.		
Ni + Co	Ni% + Co%	1.000 max.		
Phosphorus	P %	0.250 max.		
Lead	Pb %	1.000 - 2.500		
Sulphur	S %	0.050 max.		
Antimony	Sb %	0.250 max.		
Silicon	Si %	0.005 max.		
Tin	Sn %	9.000 - 11.000		
Zinc	Zn %	0.700 max.		
Copper	Cu %	86.000 - 89.000	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	240 - 260
-	-	-	Yield Strength in Mpa	125 - 140
-	-	-	Elongation in %	8 - 10
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
C92700	UNS	USA	Rod, Bar, Tube and Shapes
B30 C92700	ASTM	USA	Ingot and Casting
B505 C92700	ASTM	USA	Casting
CA927	SAE	USA	Casting
SAE 63	SAE	USA	Casting
SB-505 C92700	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

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.