



Material - SAE AMS 4863 Cu-15Ni-8Sn
Standard Specification for Copper-Nickel-Tin Alloy Casting

Group - Non-Ferrous Copper Alloy

Sub Group - SAE AMS 4863 Copper-Nickel-Tin Alloy Casting

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

Grade Belongs to the Industry - Casting

Chemical Composition			Heat Treatment	
Iron	Fe %	0.500 max.	As-Cast or Solution Annealing	
Magnesium	Mg %	0.150 max.		
Manganese	Mn %	0.050 - 0.300		
Niobium	Nb %	0.100 max.		
Ni + Co	Ni% + Co%	14.500 - 15.500		
Lead	Pb %	0.020 max.		
Silicon	Si %	0.300 max.		
Tin	Sn %	7.500 - 8.500		
Zinc	Zn %	0.500 max.		
Copper	Cu %	Balance		
-	-	-	Mechanical Properties Tensile Strength in Mpa 779 min. Yield Strength in Mpa 662 min. Elongation in % 2 min. Reduction of Area in % - Hardness in HB 277 min. Impact in Joule -	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
C96900	UNS	USA	Rod, Bar, Tube and Shapes
B505 C96900	ASTM	USA	Casting
SB-505 C96900	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.