

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 <table border="1"> <tr> <td>Tensile Strength in Mpa</td> <td>779 min.</td> </tr> <tr> <td>Yield Strength in Mpa</td> <td>662 min.</td> </tr> <tr> <td>Elongation in %</td> <td>2 min.</td> </tr> <tr> <td>Reduction of Area in %</td> <td>-</td> </tr> <tr> <td>Hardness in HB</td> <td>277 min.</td> </tr> <tr> <td>Impact in Joule</td> <td>-</td> </tr> </table>		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	-
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-	-	-														
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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
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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