

Material: IS 8631 Grade 1

Standard Specification for Copper Base Alloys for Marine Propellers

Group: Non-Ferrous Copper Alloy

Sub Group: IS 8631 Copper Base Alloys for Marine Propellers

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

Belongs to the Industry: Ingot and Casting

Chemical Composition		
Lead	Pb %	0.050 max.
Tin	Sn %	0.100 max.
Silicon	Si %	0.100 max.
Magnesium	Mg %	0.050 max.
Manganese	Mn %	1.000 max.
Nickel	Ni %	4.000 - 5.500
Iron	Fe %	4.000 - 5.500
Aluminium	Al %	8.800 - 10.000
Zinc	Zn %	0.500 max.
Copper	Cu %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
	As Raw

Mechanical Properties	
Tensile Strength in Mpa	640 min.
Yield Strength in Mpa	-
Elongation in %	13 min.
Reduction of Area in %	-
Hardness in HV	-
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
-	-	-	-
-	-	-	-
-	-	-	-
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