

# 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			Heat Treatment	
Lead	Pb %	0.050 max.	As Raw	
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		
-	-	-	<b>Mechanical Properties</b> Tensile Strength in Mpa 640 min. Yield Strength in Mpa - Elongation in % 13 min. Reduction of Area in % - Hardness in HV - Impact in Joule -	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
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