

## Material: ASTM B171 C63000

### Standard Specification for Copper-Alloy Plate and Sheet for Pressure Vessels, Condensers and Heat Exchangers

**Group:** Non-Ferrous Copper Alloy

**Sub Group:** ASTM B171 Copper-Alloy Plate and Sheet for Pressure Vessels, Condensers and Heat Exchangers

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

**Grade Belongs to the Industry:** Plate and Sheet

Chemical Composition			Heat Treatment	
Aluminium	Al %	9.000 - 11.000	As Drawn or Stress Relieving or Hot Rolled	
Iron	Fe %	2.000 - 4.000		
Manganese	Mn %	1.500 max.		
Ni + Co	Ni% + Co%	4.000 - 5.500		
Silicon	Si %	0.250 max.		
Tin	Sn %	0.200 max.		
Zinc	Zn %	0.300 max.		
Cu + Ag	Cu% + Ag%	Balance		
-	-	-	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	550 - 620
-	-	-	Yield Strength in Mpa	195 - 235
-	-	-	Elongation in %	10 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
C63000	UNS	USA	Rod, Bar, Tube and Shapes
B124 C63000	ASTM	USA	Rod, Bar and Shape
B283 C63000	ASTM	USA	Forging
SB-150 C63000	ASME	USA	Rod, Bar and Shape
SB-171 C63000	ASME	USA	Plate and Sheet
CA630	SAE	USA	Casting
CuAl10Ni5Fe4	ISO	International	Rod and Bar

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