

Material: ASTM B171 C61400

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		
Aluminium	Al %	6.000 - 8.000
Iron	Fe %	1.500 - 3.500
Manganese	Mn %	1.000 max.
Phosphorus	P %	0.015 max.
Lead	Pb %	0.010 max.
Zinc	Zn %	0.200 max.
Cu + Ag	Cu% + Ag%	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
As Drawn or Stress Relieving	

Mechanical Properties	
Tensile Strength in Mpa	450 - 485
Yield Strength in Mpa	180 - 195
Elongation in %	35 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
C61400	UNS	USA	Rod, Bar, Tube and Shapes
B100 C61400	ASTM	USA	Plate and Sheet
B111 C61400	ASTM	USA	Tubes
B169 C61400	ASTM	USA	Sheet, Strip and Bar
B315 C61400	ASTM	USA	Pipe and Tube
CA614	SAE	USA	Casting
SB-150 C61400	ASME	USA	Rod, Bar and Shapes

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