

Material: ASTM B171 C61300

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 - 7.500
Iron	Fe %	2.000 - 3.000
Manganese	Mn %	0.200 max.
Ni + Co	Ni% + Co%	0.150 max.
Phosphorus	P %	0.015 max.
Lead	Pb %	0.010 max.
Silicon	Si %	0.100 max.
Tin	Sn %	0.200 - 0.500
Zinc	Zn %	0.100 max.
Copper	Cu %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
As Drawn or Stress Relieving	
Mechanical Properties	
Tensile Strength in Mpa	450 - 515
Yield Strength in Mpa	180 - 250
Elongation in %	30 - 35
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
C61300	UNS	USA	Rod, Bar, Tube and Shapes
B100 C61300	ASTM	USA	Plate and Sheet
B111 C61300	ASTM	USA	Tubes
B169 C61300	ASTM	USA	Sheet, Strip and Bar
F467 C61300	ASTM	USA	Bolts, Screws and Studs
SB-111 C61300	ASME	USA	Tubes
SB-150 C61300	ASME	USA	Rod, Bar and Shapes

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