

# Material: ASTM B111 C61300

## Standard Specification for Copper and Copper-Alloy Seamless Condenser Tubes and Ferrule Stock

**Group:** Non-Ferrous Copper Alloy

**Sub Group:** ASTM B111 Copper and Copper-Alloy Seamless Condenser Tubes and Ferrule Stock

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

### Grade Belongs to the Industry: Tubes

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	
205 min.	
Yield Strength in Mpa	
- 480 min.	
Elongation in %	
-	
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
B169 C61300	ASTM	USA	Sheet, Strip and Bar
B171 C61300	ASTM	USA	Plate and Sheet
F467 C61300	ASTM	USA	Bolts, Screws and Studs
SB-111 C61300	ASME	USA	Tubes
SB-150 C61300	ASME	USA	Rod, Bar and Shapes

**Disclaimer:** All information displayed in our data sheets are for reference purpose only and are sole property of their respective owners. Information and or material are used for educational purposes only. Data at actual may vary at actual and case to case basis. ICAST Alloys LLP does not guarantee validity of these parameters. Warranties and liabilities are exclusive to our terms and conditions of business.

Customer Care: +91-99090 45075 Email: [info@icastllp.com](mailto:info@icastllp.com)



+91-99090 45075



[info@icastllp.com](mailto:info@icastllp.com)



ICAST ALLOYS LLP, Plot 2527, Road H1, Kranti Gate, GIDC Metoda, Lodhika, Rajkot-360021, Gujarat, India