



## 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			Heat Treatment	
Aluminium	Al %	6.000 - 7.500	As Drawn or Stress Relieving	
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		
-	-	-	<b>Mechanical Properties</b>	
-	-	-	Tensile Strength in Mpa	480 min.
-	-	-	Yield Strength in Mpa	205 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

**Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email [marketing@gravitycastindia.com](mailto:marketing@gravitycastindia.com)**

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