

# Material: SAE J463 CA614

## Standard Specification for Wrought Copper and Copper Alloys

**Group:** Non-Ferrous Copper Alloy

**Sub Group:** SAE J463 Wrought Copper and Copper Alloys

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

**Belongs to the Industry:** Casting

Chemical Composition			Heat Treatment	
Aluminium	Al %	6.000 - 8.000	As Drawn or Stress Relieving	
Iron	Fe %	1.500 - 3.500		
Manganese	Mn %	1.000 max.		
Phosphorus	P %	0.015 max.		
Lead	Pb %	0.100 max.		
Zinc	Zn %	0.200 max.		
Cu + Ag	Cu% + Ag%	88.000 - 92.500		
-	-	-	<b>Mechanical Properties</b> Tensile Strength in Mpa 525 - 615 Yield Strength in Mpa 230 - 415 Elongation in % 32 - 45 Reduction of Area in % - Hardness in HRB 81 - 91 Impact in Joule -	
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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
B171 C61400	ASTM	USA	Plate and Sheet
B315 C61400	ASTM	USA	Pipe and Tube
SB-150 C61400	ASME	USA	Rod, Bar and Shapes

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