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		
Aluminium	Al %	6.000 - 8.000
Iron	Fe %	1.500 - 3.500
Manganese	Mn %	1.000 max.
Phosphorus	P %	0.015 max.
Lead	Pb %	0.100 max.
Zinc	Zn %	0.200 max.
Cu + Ag	Cu% + Ag%	88.000 - 92.500
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As Drawn or Stress Relieving

Mechanical Properties	
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	-

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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